CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, February 9, 1905.

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CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

Announcement is made in these columns from time to time of civil service examinations for technical positions. In all cases where the examinations are held by the United States Civil Service Commission, further information may be obtained by addressing the Secretary of that board at Washington, D. C.

MEDALIST.—U. S. Civil Service Commission will hold an examination March 1 to secure eligibles from which to make certification to fill a vacancy in the position of medalist, at $5 or $6 per diem, in the United States Mint at Philadelphia, Pa., and vacancies as they may occur in the Mint and Assay Service throughout the United States requiring similar qualifications. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Applicants must be artists trained in miniature sculpture and able to produce dies for striking medals or coins. They must be designers, competent to illustrate allegorically special occasions or events, and sculptors and engravers in relief and intaglio, and must be skilled in all classes of work such as portraiture, figure or animal work, foliage or flowers, as all are often combined in one medal or coin.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Feb.				
11	Crane runways	Boston, Mass.	S.	1-19
11	Electric elevator	Wash., D. C.	S.	1-19
*15	Barracks	Ft. Wright, Wash.	P. & S.	1-19
*16	Dredging	Detroit, Mich.	S.	1-19
18	Telephone system	Wash., D. C.	S.	1-26
25	Dredging	Washington, D. C.	S.	2-2
25	Garbage incinerator	New York	S.	2-2
Mar.				
3	Steel, concrete floor	Wash., D. C.	S.	2-9
*8	Filtration system	Pittsburg, Pa.	P. & S.	2-2
11	Fireproof prison	New York, N.Y.	S.	2-9
*17	Dredge	St. Louis, Mo.	P. & S.	1-19

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Feb. 14. Street lighting, St. Louis, Mo. ..... Feb. 9
Feb. 15. Power house, Evansville, Ind. ..... Feb. 9
Feb. 15. Electrical equipment, Baltimore, Md. ..... Feb. 9
Feb. 15. Generators, Chicago, Ill. ..... Dec. 22
Feb. 15. Electric engines, West Point, N. Y. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.
Feb. 15. Gas plant, Temple, Tex. ..... Jan. 26
Feb. 17. Power plant, Niagara Falls, Ont. ..... Feb. 9
Feb. 27. Electric motors, Los Angeles, Cal. ..... Feb. 9
Mar. 20. Electric generating plant, Wash., D. C. ..... Feb. 9
Advertised, Eng. News, Feb. 9.
No date. Incandescent lighting, Laconia, N. H. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.

BRIDGES.

Feb. 9. Bridge, repairs, Jersey City, N. J. ..... Feb. 2
Feb. 9. Bridge, New York, N. Y. ..... Feb. 2
Feb. 13. Bridges, Sherbrooke, N. Dak. ..... Jan. 26
Feb. 14. Bridges, stone, Napa, Cal. ..... Dec. 29
Feb. 14. Bridge, India ..... Jan. 26
Feb. 14. Bridges, Madison, Neb. ..... Feb. 9
Feb. 15. Bridge, Troy, O. ..... Feb. 9
Feb. 15. Bridge, iron, Saginaw, Mich. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 16. Bridge, Columbus, O. ..... June 26
Feb. 16. Bridge, truss, Charleston, W. Va. ..... Jan. 26
Advertised, Eng. News, Jan. 26.
Feb. 17. Bridge, superstructure, Port Clinton, O. ..... Jan. 26
Feb. 17. Bridge, Port Clinton, O. ..... Jan. 26
Feb. 17. Bridges, Tara, Ont. ..... Feb. 9
Feb. 18. Bridge, steel, Seaforth, Ont. ..... Feb. 9
Feb. 18. Bridge repair, Cincinnati, O. ..... Jan. 26
Feb. 20. Bridge, York, Neb. ..... Jan. 26
Feb. 20. Bridge, steel, Culpeper, Va. ..... Jan. 19
Feb. 20. Bridge piers, Ottawa, Ont. ..... Feb. 9
Feb. 21. Bridge, steel, Celina, O. ..... Feb. 2
Feb. 21. Bridge, Kearney, Neb. ..... Feb. 2
Feb. 23. Bridges, Dover, Ont. ..... Feb. 2
Feb. 25. Bridges, Celina, O. ..... Feb. 9
Mar. 6. Bridge, Los Gatos, Cal. ..... Feb. 9
Apr. 4. Bridge, Goldendale, Wash. ..... Feb. 9

BUILDINGS.

Feb. 9. Barrack, Plattsburg, N. Y. ..... Jan. 19
Feb. 9. Coal shed, Tompkinsville, N. Y. ..... Jan. 12
Advertised, Eng. News, Jan. 12 and 19.
Feb. 9. Post office, Natchez, Miss. ..... Jan. 12
Feb. 10. Barracks, etc., Fort Howard, Md. ..... Jan. 19
Feb. 10. Life-saving stations, Washington, D. C. ..... Feb. 2
Feb. 10. High school, Springfield, Mass. ..... Feb. 2
Feb. 10. High school, Helena, Okla. ..... Feb. 2
Feb. 10. School, St. Louis, Mo. ..... Feb. 9
Feb. 13. Twenty-one buildings, San Francisco, Cal. ..... Jan. 26
Feb. 14. Steam heating, Batesville, Ark. ..... Jan. 12
Feb. 14. Armory, Binghamton, N. Y. ..... Jan. 26
Feb. 14. High school, Alhambra, Cal. ..... Feb. 2
Feb. 14. Schools, New York, N. Y. ..... Feb. 2
Feb. 15. Cold storage building, New York, N. Y. ..... Feb. 2
Feb. 15. Academy building, Staunton, Va. ..... Feb. 2
Feb. 15. Memorial building, Cincinnati, O. ..... Feb. 2
Feb. 15. Steam heating, Chillicothe, O. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to 19.
Feb. 15. Barracks, Ft. Wright, Wash. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 9.
Feb. 15. Office building, Cedar Rapids, Ia. ..... Feb. 9
Feb. 16. Gallery, Philadelphia, Pa. ..... Feb. 9
Advertised, Eng. News, Feb. 2 and 9.
Feb. 16. Brick building, San Antonio, Tex. ..... Feb. 9
Feb. 17. School, Jewett, O. ..... Feb. 9
Feb. 20. School, New York, N. Y. ..... Feb. 9
Feb. 20. Hospital, Albany, N. Y. ..... Feb. 2
Feb. 21. Post office, Westchester, Pa. ..... Jan. 5
Feb. 21. Plumbing, etc., Ft. Assiniboine, Mont. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 16.
Feb. 21. Building, brick, New London, Conn. ..... Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Feb. 23. Post office, Decatur, Ill. ..... Jan. 12
Feb. 23. Metal window frames, Wash., D. C. ..... Feb. 2
Feb. 25. Steam heating, Anniston, Ala. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 27. Post office, Columbia, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 28. Post office, Louisiana, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Mar. 1. Five buildings, Chattanooga, Tenn. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to 23.
Mar. 1. Building materials, Chattanooga, Tenn. ..... Feb. 9
Mar. 1. Heating apparatus, Hastings, Neb. ..... Feb. 9
Mar. 1. Court house plans, Edna, Tex. ..... Feb. 9
Mar. 2. Post office, Adrian, Mich. ..... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 3. Electric wiring, Savannah, Ga. ..... Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Mar. 3. Steel, concrete floor, Washington, D. C. ..... Feb. 9
Mar. 5. Post office, Battlecreek, Mich. ..... Feb. 9
Mar. 6. Dormitory, etc., Washington, D. C. ..... Feb. 9
Mar. 6. Court house, Greenwood, Miss. ..... Jan. 26
Mar. 6. Post office, Battlecreek, Mich. ..... Jan. 26
Mar. 7. Post office, Findlay, O. ..... Feb. 2
Mar. 8. Post office, Muskegon, Mich. ..... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 9. Steam heating, Savannah, Ga. ..... Feb. 9
Mar. 10. Wagon shed, Oswego, N. Y. ..... Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 2.
Mar. 11. Fireproof prison, New York, N. Y. ..... Feb. 9
Mar. 12. Court house, Magnolia, Ark. ..... Feb. 9
Mar. 13. Post office, Hammond, Ind. ..... Jan. 26
Mar. 14. Post office, Moberly, Mo. ..... Jan. 26
Mar. 15. Jail equipment, etc., Camden, N. J. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Mar. 20. Post office, Elizabeth, N. C. ..... Feb. 2
Mar. 21. Post office, Laredo, Tex. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Mar. 27. Post office, Lebanon, Pa. ..... Feb. 9
Mar. 28. Post office, Superior, Wis. ..... Feb. 9
Advertised, Eng. News, Feb. 9 and 16.

WATER SUPPLY AND IRRIGATION.

Feb. 9. Water supply system, Fort Keogh, Mont. ..... Jan. 19
Feb. 10. Water system, Bishop, Cal. ..... Dec. 15
Advertised, Eng. News, Dec. 8 to 29.
Feb. 14. Water pipe, Syracuse, N. Y. ..... Feb. 9
Feb. 15. Hydrants, valves, etc., Holden, Mass. ..... Feb. 9
Feb. 15. Water-works, Waterman, Ill. ..... Feb. 9
Feb. 18. Water main, Seattle, Wash. ..... Feb. 9
Feb. 20. Pumping station, East Toronto, Ont. ..... Feb. 9
Feb. 20. Pipe specials, Washington, D. C. ..... Feb. 2
Advertised, Eng. News, Feb. 2.
Feb. 22. Water-works, Schoharie, N. Y. ..... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Feb. 23. Water main extension, Portland, Me. ..... Feb. 2
Feb. 23. Water-works, Tillamook, Ore. ..... Feb. 2
Feb. 23. Water-works, Menasha, Wis. ..... Feb. 9
Feb. 24. Meters, Cleveland, O. ..... Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Mar. 1. Water-works, Chariton, Ia. ..... Jan. 26
Mar. 4. Water-works, Meeker, Colo. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to Mar. 3.
Mar. 8. Filtration plant, Pittsburg, Pa. ..... Feb. 2
Advertised, Eng. News, Feb. 2.
Mar. 8. Water main extension, Fort Du Pont, Del. ..... Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 2.
Mar. 21. Well, Fort Caswell, N. C. ..... Feb. 9

SEWERAGE.

Feb. 10. Sewer system, Bishop, Cal. ..... Dec. 15
Advertised, Eng. News, Dec. 8 to 22.
Feb. 13. Sewer, Los Gatos, Cal. ..... Feb. 9
Feb. 14. Sewers, St. Louis, Mo. ..... Feb. 9
Feb. 14. Sewers, Bogota, N. J. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.
Feb. 14. Sewers, Cleveland, O. ..... Feb. 2
Feb. 15. Sewers, Havana, Ill. ..... Jan. 26
Feb. 15. Sewer system, Lunenburg, N. S. ..... Jan. 12
Feb. 15. Sewers, New Rochelle, N. Y. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to 26.
Feb. 15. Sewer, Marion, O. ..... Feb. 2
Feb. 16. Sewers, St. Bernard, O. ..... Jan. 26
Feb. 16. Sewers, Sullivan, Ind. ..... Feb. 2
Feb. 16. Sewer, Des Moines, Ia. ..... Feb. 9
Feb. 17. Sewers, Mamaroneck, N. Y. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to 16.
Feb. 18. Sewer, tank, Seattle, Wash. ..... Feb. 9
Feb. 21. Sewers, Coldwater, Mich. ..... Feb. 9
Advertised, Eng. News, Feb. 9.
Feb. 23. Sewerage, New Rochelle, N. Y. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 23. Sewers, New Rochelle, N. Y. ..... Jan. 26
Feb. 24. Sewers, pipe, Wilkesbarre, Pa. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to 17.
Mar. 6. Sewer siphons, Washington, D. C. ..... Feb. 9
Advertised, Eng. News, Feb. 9.

STREETS AND ROADS.

Feb. 9. Walks, cement, Port Townsend, Wash. ..... Jan. 26
Feb. 10. Boulevard, Indianapolis, Ind. ..... Feb. 2
Feb. 10. Paving, Dayton, O. ..... Feb. 9
Feb. 10. Sidewalk, brick, Savannah, Ga. ..... Feb. 9
Feb. 13. Macadamizing, Sacramento, Cal. ..... Feb. 9
Feb. 13. Paving, Kalamazoo, Mich. ..... Feb. 2
Advertised, Eng. News, Feb. 2.
Feb. 13. Paving, etc., Jacksonville, Fla. ..... Jan. 26
Feb. 14. Paving, New York, N. Y. ..... Feb. 2
Feb. 14. Sidewalks, cement, Wildwood, N. J. ..... Feb. 9
Feb. 15. Sidewalks, Marion, O. ..... Feb. 9
Feb. 15. Paving, asphalt, New York, N. Y. ..... Feb. 9
Feb. 15. Paving, Toledo, O. ..... Feb. 9
Feb. 15. Grading, Leesville, La. ..... Jan. 26
Feb. 14. Road, Napa, Cal. ..... Dec. 29
Feb. 15. Macadamizing, Madison, Wis. ..... Jan. 19
Feb. 15. Grading, Cornwall, Conn. ..... Feb. 2
Feb. 15. Paving, Meadville, Pa. ..... Feb. 2
Advertised, Eng. News, Feb. 9.
Feb. 16. Curbing, cement, Des Moines, Ia. ..... Feb. 2
Feb. 18. Grading, Washington, D. C. ..... Jan. 19
Advertised, Eng. News, Jan. 19.
Feb. 18. Grading, Seattle, Wash. ..... Feb. 9
Feb. 21. Asphalt, Winnipeg, Man. ..... Feb. 9
Feb. 21. Paving, wood, New York, N. Y. ..... Feb. 2
Feb. 22. Grading, Hoboken, N. J. ..... Feb. 9
Feb. 23. Paving, Cincinnati, O. ..... Feb. 9
Feb. 23. Reade, Peru, Ind. ..... Feb. 9
Feb. 23. Paving, Geneva, N. Y. ..... Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Feb. 24. Paving, Cincinnati, O. ..... Feb. 9
Feb. 24. Road, York, Pa. ..... Feb. 2
Feb. 27. Paving, etc., Wilkesbarre, Pa. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to 23.
Feb. 25. Road, Celina, O. ..... Feb. 9
Feb. 27. Paving, Elyria, O. ..... Feb. 9
Feb. 27. Grading, etc., Hartford, Conn. ..... Feb. 9
Mar. 1. Paving, Ft. Wayne, Ind. ..... Feb. 9
Mar. 1. Road, Grass Valley, Cal. ..... Jan. 26

MISCELLANEOUS CONTRACTS.

Feb. 9. Pneumatic tube systems, Ottawa, Ont. ..... Feb. 2
Feb. 9. Dike work, New York, N. Y. ..... Feb. 2
Feb. 11. Pier extension, dredging, etc., Ireland. ..... Jan. 19
Feb. 11. Crane runways, Washington, D. C. ..... Jan. 19
Feb. 11. Electric elevator, Washington, D. C. ..... Jan. 19
Feb. 11. Canal, Columbus, O. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Feb. 13. Garbage collection, Atlantic City, N. J. ..... Jan. 26
Feb. 13. Tubular boiler, Asbury Park, N. J. ..... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Feb. 14. Wire, drills, etc., Washington, D. C. ..... Jan. 19
Feb. 14. Machinery, Washington, D. C. ..... Jan. 19
Feb. 14. Tunnel, Boston, Mass. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 15. Rubbish incinerator, New York, N. Y. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 15. Stone crushers, Washington, D. C. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 15. Dredging, Chicago, Ill. ..... Dec. 15
Advertised, Eng. News, Dec. 15.
Feb. 13. Garbage collection, Atlantic City, N. J. ..... Jan. 26
Feb. 15. Hose wagons, hose, St. Paul, Minn. ..... Feb. 9
Feb. 16. Dredging, Detroit, Mich. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 16.
Feb. 16. Wharf work, San Francisco, Cal. ..... Jan. 26
Feb. 16. Garbage collect'n & disposal, Chicago, Ill. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 17.
Feb. 17. Embankment, San Francisco, Cal. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 16.
Feb. 18. Telephone system, Washington, D. C. ..... Jan. 26
Feb. 18. Dredging, New Orleans, La. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 16.
Feb. 18. Boilers, stack, etc., Norwood, O. ..... Feb. 9
Feb. 20. Garbage removal, Waterbury, Conn. ..... Feb. 9
Feb. 20. Tramways, England. ..... Jan. 26
Feb. 21. Piles, Washington, D. C. ..... Jan. 26
Feb. 21. Machine tools, Washington, D. C. ..... Jan. 26
Feb. 21. Portland cement, Cincinnati, O. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 16.
Feb. 21. Remodeling boat, Milwaukee, Wis. ..... Feb. 9
Feb. 23. Dams and bridges, Phoenix, Ariz. ..... Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Feb. 23. Grading, etc., Memphis, Tenn. ..... Feb. 9
Feb. 23. Window frames, Washington, D. C. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 23.
Feb. 23. Portland cement, etc., Newport, R. I. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 23.
Feb. 23. Dredging, bridges, Dover, Ont. ..... Feb. 2
Feb. 25. Dredging, Washington, D. C. ..... Feb. 2
Feb. 25. Garbage incinerating plant, New York. ..... Feb. 2
Feb. 25. Lock, Cincinnati, O. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 23.
Feb. 27. Filling and grading, Hartford, Conn. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 28. Rock drills Washington, D. C. ..... Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 2.
Feb. 28. Machine tools, Washington, D. C. ..... Feb. 9
Feb. 28. Ditching, Litchfield, Minn. ..... Feb. 9
Mar. 1. Island, Ellis Island, N. Y. ..... Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Mar. 1. Steamboat, New York, N. Y. ..... Feb. 9
Mar. 3. Cement, San Francisco, Cal. ..... Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 2.
Mar. 3. Tank and trestle, Fort Reno, Okla. ..... Feb. 9
Mar. 6. Wreck removal, Boston, Mass. ..... Feb. 9
Advertised, Eng. News, Feb. 9 to Mar. 9.
Mar. 6. Electric tramcars, etc., South Africa. ..... Jan. 12
Mar. 6. Railway tunnels, Pa., N. J., & N. Y. Ry. ..... Feb. 2
Advertised, Eng. News, Feb. 2.
Mar. 7. Steel rails, fish plates, Australia. ..... Jan. 19
Mar. 7. Ditches, Storm Lake, Ia. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to Mar. 3.
Mar. 15. Dam, Los Angeles, Cal. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 23.
Mar. 17. Dredge, St. Louis, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Mar. 31. Electric railway, China ..... Oct. 20
Advertised, Eng. News, Oct. 20 to Dec. 29.
Apr. 1. Dredging, Sweden ..... Nov. 24
Apr. 10. Channel improvement, Bermuda ..... Jan. 26
Advertised, Eng. News, Feb. 2.
May 1. Light house, Egypt ..... Dec. 22

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTIC & BIRMINGHAM.—George Dole Wadley, Waycross, Ga., vice-Pres. and Gen. Mgr., has stated that immediate steps will be taken for the extension of the road from Montezuma, the northwestern terminus, on through Georgia and thence to Birmingham, Ala., a distance of 250 miles. Alexander Bonnyman, Brunswick, Ga., is Supt.

BELT LINE RY.—L. D. Kinney, Pres., Marshfield, Ore., writes us that this railway will be 29 miles long, from Empire to Glasgo, via Bangor, North End and Marshfield. Preliminary surveys will be completed and construction probably begun this year. G. F. Polley, Marshfield, is Ch. Engr.

CANADIAN PACIFIC.—W. F. Tye, Ch. Engr., Montreal, Que., writes us that considerable double-tracking is contemplated. It has been decided to double track at once the line between Winnipeg and Fort William, 419 miles, and surveys are being made. Further grade reductions will also be made, and a cut-off built from Winnipeg to Moison, Man. Voted Jan. 19.

Extensions were contemplated during the past year from Abernethy to Lipton, Assa., 29 miles, and from Francis to Arcola, Assa., 72 miles. The following extensions are under way: From Brookdale to Varcoe, 18 miles; from Lipton to Strassburg, 40 miles; from Lacombe east, 28 miles; from Wetaskewin east, 25 miles, and from Sudbury to Toronto, Ont., 228 miles.

CHICAGO, ANAMOSA & NORTHERN.—J. F. Lacock, Ch. Engr., writes Engineering News that location surveys are being made from Coggan to Waterloo, 73 miles. Contracts will be let in about a month. Henry Kiene, Dubuque, Ia., is Pres. The line will run either to Waterloo or to Independence; route has not definitely been decided.

CHICAGO, BURLINGTON & QUINCY.—An extension of the Cody branch from Cody, Wyo., to Thermopolis, 90 miles, is under consideration, it is reported. If the extension is built it will leave the present branch line at Garland, Wyo., 25 miles north of Cody. I. S. P. Weeks is Engr., Lincoln, Neb.

CHICAGO & NORTHWESTERN.—E. C. Carter, Ch. Engr., Chicago, has awarded contract for construction of branch from Laona, Wis., to Saunders, Mich., 30 miles, to WINSTON BROS. CO., of Minneapolis, Minn., and A. D. McDOUGALL, of Milwaukee. Mr. McDougall may be addressed at Saunders. Cost $350,000.

CINCINNATI, HAMILTON & DAYTON.—THE LACKAWANNA STEEL CO., Buffalo, N. Y., has been awarded a contract for 10,000 tons of 85-pound rails. It is said that the rails are to be used for reconstructing the line from Indianapolis to Cincinnati. C. A. Wilson, Cincinnati, is Ch. Engr.

COLORADO & SOUTHERN.—H. W. Cowan, Ch. Engr., Denver, Colo., informs us that the report of construction of a line from Ft. Collins to Cheyenne is incorrect. This company, he states, has no intention of building it. Noted on Jan. 19.

COLUMBIA RIVER & OREGON CENTRAL.—W. H. Kennedy, Ch. Engr., Portland, Ore., informed us, under date of Jan. 11, that grading was 75% completed on route from Arlington to Condon, 45 miles. THE PACIFIC COAST CONSTRUCTION CO., of Portland, has contract for building road. Track-laying has been started. E. E. Calvin, Portland, is Pres.

DELAWARE & HUDSON.—It is reported that surveys have been begun for a line from Mechanicville, N. Y., southeast across Rensselaer and the northeast corner of Columbia counties, 40 miles, to State Line, Berkshire county, Mass., on the Boston & Albany and the terminus of a branch of the New York, New Haven & Hartford Rys. James MacMartin, Albany, is Ch. Engr.

DELAWARE, LACKAWANNA & WESTERN.—It is reported that $75,000 will be spent in remodeling company's yards in Syracuse, N. Y., and for construction of a coal elevator and roundhouse. D. L. Stewart, Bath, N. Y., is Div. Supt. Bldgs. and Bridges.

EL PASO, MOUNTAIN PARK & ST. LOUIS.—Mark Roberts, Secy., informs us that 200 miles of proposed route have been surveyed. Complete maps and profiles for 110 miles, from Oklahoma City to Mountain Park, Okla., have been prepared. Right-of-way has been secured for this distance. Contracts will be let soon. R. K. Keeley, Mountain Park, is Pres. The line will be 1,700 miles long, from St. Louis to Guamus, Mexico, via El Paso, Tex.

GREAT NORTHERN.—It is stated that A. GUTHRIE & CO., of St. Paul, Minn., have been awarded the contract for double-tracking the line from the state line to Wingate, Minn., a distance of seven miles. Work will begin at once. The work involves the handling of about 175,000 cubic yards of dirt. A H. Hogeland is Ch. Engr., at St. Paul, Minn.

GULF, HUTCHINSON & NORTHWESTERN.—T. G. Ellbury, Ch. Engr., Hutchinson, Kan., writes us that nothing will be done toward constructing railway until spring. As previously noted, the line will be 400 miles long, running from Atwood to Arkansas City and thence to Gulf of Mexico. E. Tilleux, Hutchinson, is Pres.

ILLINOIS.—John O'Neill, city track elevation expert, has prepared plans for elevation of 27 miles of track in Chicago. It will cost $2,000,000. The tracks to be raised are between 12th and 31st Sts., Rockwell St. and Western Ave. The Chicago, Burlington & Quincy Ry. crosses the others at 18th St. The road-bed and tracks concerned are principally in Campbell Ave. The roads involved are as follows: Pittsburg, Cincinnati, Chicago & St. Louis; Chicago & Northwestern; Chicago Terminal Transfer; Chicago Junction; Chicago, Burlington & Quincy; and Illinois Northern.

IONE & EASTERN.—F. E. Beck, Pres., 300 Rialto Bldg., San Francisco, Cal., writes us that grading is about completed and that track laying is now in progress. Twelve miles of road will be in operation within 30 days. Contractors are Atlas Contract & Supply Co., 311 Rialto Bldg., San Francisco, and Erickson & Petterson, San Francisco. H. E. C. Feusier, Ione, Cal., is Ch. Engr. (Mentioned in Aug. 25 issue.)

KANSAS CITY, OTTAWA & BURLINGTON.—We are informed that surveys will be run within a few days for this road, and that construction work will be started probably by March 1. Total length of the line as planned at present will be about 170 miles; maximum grade, 1%; maximum curve, 4°. Alfred L. Hartridge, Olathe, Kan., is Ch. Engr.

LOUISVILLE & NASHVILLE.—Contract for grading a one-mile spur track for this road at Emauee on Alabama Mineral Division, has been let to WAGNON BROS., Anniston, Ala.

MISSISSIPI CENTRAL.—Surveys are now being made and it is expected that grading will be begun soon on the 28 mile extension of this road from Silver Creek to Brookhaven, Miss. M. H. McCabe, Hattiesburg, Miss., is Supt., and F. L. Peck, Scranton, Pa., is Pres.

NEW YORK, NEW HAVEN & HARTFORD.—Bids have been invited and contracts will be awarded shortly for a part of the $8,000,000 improvement on the line from New Rochelle to the Harlem River. The improvement includes the electrification and the six tracking of this line and the elimination of all grade crossings. The work is expected to cost about $5,000,000. C. M. Ingersoll, New Haven, Conn., is Ch. Engr.

NUECES VALLEY, RIO GRANDE & MEXICO.—WARD & LEE, Palestine, Tex., were awarded contract for grading first 20 miles of this road between Carrizo Springs and Cotulla, Tex., and began work Jan. 24. The road is projected from Aransas Pass to Del Rio, Tex., 250 miles. W. A. Squires, Carrizo Springs, Tex., is Gen. Mgr.

OREGON.—Grand Ronde Lumber Co., C. W. Nibley, Pres., Perry, Ore., is stated to have completed arrangements for building a narrow gage railroad, ten miles long from Hilgard, Ore., into a belt of yellow pine on Rock Creek.

OREGON STATE PORTAGE ROAD.—A. J. McMillan, Ch. Engr., The Dalles, Ore., writes us that contract for construction of this road, which is to extend from Celilo to Big Eddy, 8½ miles, was let Dec. 30 to NELSON & WHITE, The Dalles, Ore. Work has been started and is to be completed by May 15. The state supplies rails and rolling stock and the contractor furnishes the remainder of the material. Work will require a coaling station, one roundhouse, one water tank, 12,000 lin. ft. wood trestling, 50,000 cu. yds. embankment and 75 tons structural material. Noted on Jan. 5-Jan 12.

OTTAWA RIVER.—Contract for building line of this road between Montreal and Ottawa, 100 miles, is stated to have been let to M. P. McGRATH, Easton, Pa. It is planned to build ultimately to Georgian Bay.

RAILWAY CONSTRUCTION IN 1904.—Incomplete official announcement of construction shows a total of 4,201 miles on 300 railway lines. Missouri leads with 372 miles of new line and Texas is second with 312 miles. Minnesota, 271 miles; West Virginia, 237 miles; Mississippi, 229 miles; Pennsylvania, 220 miles; Nevada, 215 miles; California, 210 miles; Illinois, 196½ miles. In sections the mileage is as follows; (1) number of lines; (2) track laid: New England states, (1) 1, (2) 9.50; middle states, (1) 29, (2) 249.81; central northern states, (1) 37, (2) 457.90; south Atlantic states, (1) 53, (2) 483.91; gulf and Mississippi valley states, (1) 68, (2) 677.93; southwestern states, (1) 55, (2) 1,243.26; northwestern states, (1) 21, (2) 435.13; Pacific states, (1) 36, (2) 648.73.

ST. AUGUSTINE-SOUTH BEACH.—This road contemplates erection of hotel properties at South Beach, Fla., and probably the extension of the road to a point 17 miles south of that place, and consequently will be in the market for required materials and supplies. R. N. Dickey, Gen. Mgr., 83 Cedar St., St. Augustine, Fla., should be addressed for information.

ST. LOUIS, CABOOL & LITTLE ROCK.—We are informed that the Hanover Realty Guaranty Co., 318 Broadway, New York, will receive bids by mail for materials, supplies, etc., for construction of first division, 54 miles long, of this railway. Noted in full on Jan. 26. The Hanover Realty Guaranty Co. is the New York representative and to it may be addressed all communications.

TALLULAH FALLS RY.—This year it is planned to extend the line from Clayton to Franklin, N. C., connecting at this place with the Southern Ry. G. L. Prentiss, 31 Nassau St., New York, is Pres.; Joel Mable, Tallulah Falls, Ga., is Ch. Engr.

TEXAS SOUTH EASTERN.—The contract for grading 8.6 miles of this road has been let to CHAS. McSWEENEY, Houston, Tex. Contract for clearing has been let to THOS. TREADWELL, Diboll, Tex. The company will do its own bridge building, track laying, etc.

TONOPAH, RY.—Bids are being received, it is stated, by the Pacific Construction Co., Tonopah (Butler post-office) Nev., for the grading and track laying on the Goldfield Ry. between Tonopah, Nev., and Goldfield, Nev., a distance of 31 miles. All track materials and lumber for trestles and culverts will be delivered by the company to the contractors on the ground at Tonopah. R. W. Welsh, Ch. Engr.

VIRGINIA.—J. E. Rodes & Co., Knoxville, Tenn., who recently secured a contract for building 15 miles of railroad in Southwest Virginia for Virginia Iron, Coal & Coke Co., has let the following sub-contracts: HARRIMAN CONSTRUCTION CO., of Harriman, Tenn.; GEORGE DOGGETT, LaFollette, Tenn.; J. T. CALHOUN & CO., BIRD STEWART and J. E. OATS & CO., of Asheville, N. C.

VIRGINIA & SOUTHEASTERN.—E. S. Fraser, Ch. Engr., Bristol, Tenn., will receive bids soon, it is reported, for constructing 37 miles of line, from Toms Creek to Clinchport.

WABASH.—Unofficial announcement of contemplated construction in Ohio this year has been made. The following extensions are given:: From Lisbon, west to Minerva, O., being an extension of the Pittsburg, Lisbon & Western, a distance of 22 miles; from Lisbon north to Salem, O., eight miles; from Negley southwest to Wellsville and East Liverpool, ten miles. It is also proposed to extend the Pittsburg, Lisbon & Western, which is now controlled by the Wabash, from New Galilee to New Castle, Pa., 14 miles, with a branch to Ellwood City, six miles. W. S. Newhall, St. Louis, Mo., is Ch. Engr.

STREET AND ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

MANCHESTER, N. H.—The Derry & Manchester Ry. Co. has been organized by Geo. H. Chandler, Harry E. Parker and Roswell Annis, all of Manchester; David F. Perkins, of Londonderry; Edwin N. Whitney and C. N. Greenough, of Derry. It is proposed to build the road from a point on Broadway, near the postoffice at West Derry to some point in Goff's Falls, Manchester. The capital stock shall not exceed $100,000.

BOSTON, MASS.—Construction work will soon be started by the Plymouth County Street Ry. Co. of its new line. Office, 50 Congress St., City.

MILFORD, MASS.—We are informed that the Milford & Uxbridge Street Ry. Co. will relay about seven miles with 70-lb. rails. Material has been ordered and work will be done by company's men.

BALLSTON, N. Y.—The Eastern New York Railroad Co. will build electric lines from Ballston to Gloversville, Amsterdam and Johnstown.

PATERSON, N. J.—It is reported that work will be started this summer on the construction of an elevated road from Paterson to Weehawken. Those interested in the project are Wm. Barbour, John W. Griggs, M. R. McAdoo and others, of New York. The extreme length of the road, according to survey made, will be 13 miles. The motive power will be electricity, with a third-rail system. The only excavation will be cut of 4,700 ft. through Bergen hills. The corporate name is New York & New Jersey Rapid Transit Co. Est. cost, $10,000,000.

PITTSBURG, PA.—It has been decided to rel[illegible] Homestead and Homeville division of Pittsburg [illegible] and extend the line a mile further to Bull Run [illegible] Uhlenhaut is Ch. Engr., City.

SHENANGO, PA.—A franchise has been [illegible] the Shenango Traction Co. by Sharpsville Council [illegible] a line through the borough. Franchises are now [illegible] considered by Councils of Sharon, South Sharon, [illegible] and West Middlesex. W. A. Waugh, Engr., of [illegible] is interested.

WARRENTOWN, VA.—A plan is being discu[illegible] to build a trolley line from Fauquier County to the [illegible] River.

CLARKSVILLE, TENN.—The Clarksville El[illegible] Ry. Co. has changed its name to the Clarksville [illegible] Light Co. and has amended its charter to exte[illegible] Providence, Dunbar's Cave, Kentucky state lin[illegible] on a number of streets in Clarksville.

HARRODSBURG, KY.—The building of an el[illegible] railway between this city and Burgin at an early [illegible] a certainty. The Columbia and Lebanon Interu[illegible] Railway, of which W. K. Azbill is president, has [illegible] arrangements whereby eastern capitalists are [illegible] the money for the enterprise. The proposed line [illegible] from Burgin to Harrodsburg, thence to Springfield [illegible] Lebanon, from there to Columbia, and from that [illegible] Creelboro.

LOUISVILLE, KY.—The Louisville Ry. Co. has purchased the franchise for a line of street railway beginning at Shelby St. and Ormsby Ave. and running out Shelby St. up Burnett to Texas and along Texas to Goss Ave. The track will be placed on right of way in the early spring. The line will be an extension of the Shelby St. line.

CLEVELAND, O.—An ordinance has been introduced in the Council to grant a franchise to Cleveland Electric Ry. Co. for a cross-town line on Woodland Hills Ave. J. J. Stanley is Gen. Mgr.

COLUMBUS, O.—The Columbus Railway & Light Co. has been asked to extend its Neil Ave. line through the Ohio State University grounds. The matter is being considered.

FREMONT, O.—County Commissioners have granted a franchise to Lake Erie, Bowling Green & Napoleon Ry. Co. to construct a line in Woodville Township, this county. H. Sawyer is Ch. Engr., Bowling Green, O.

SPRINGFIELD, ILL.—The Springfield & Northwestern Ry. Co. proposes to build an electric line from Springfield to Lincoln and parts north.

EDWARDSVILLE, ILL.—A contract has been let for the construction of 80 miles of electric railway to J. H. McINERNEY, of Grand Forks, S. Dak. It is stated that work will be started in March.

DES MOINES, IA.—The Des Moines City Ry. Co. has under consideration plans for building of a second power plant in this city. The plant is to be almost a duplication of its present power plant, and the estimated cost of the buildings and machinery is $200,000. It is possible that the construction work will be started this coming summer.

WASHINGTON, IA.—Officers of the Iowa City, Kalona & Washington Ry. Co. are authority for the statement that the trolley line between here and Iowa City will be projected soon. As soon as warm weather arrives a new survey will be made and some changes made in old survey about Richmond.

LEAD, S. DAK.—It is rumored that the Burlington Ry. Co. will extend its narrow-gage trolley system from this place to Terry. Right of way has been secured and it is ascerted that the road will be extended this summer.

MISSOULA, MONT.—A franchise for construction of an electric street railway system here has been petitioned for by representatives of W. A. Clark, of Butte, Mont.

KANSAS CITY, MO.—We are informed that the contract for construction of double-track Kansas City Outer Belt Railway has been awarded to L. J. SMITH, 208 Commerce Bldg., City. Work will be commenced at once. Mr. Smith's contract covers the clearing, grubbing, grading, masonry, bridging, track-laying and ballasting, the work to be completed in 14 months. The work involves the expenditure of $600,000. M. P. Paret is Ch. Engr.

JOPLIN, MO.—The Spring River Power Co., of this city, announces that it will build an electric line from Baxter Springs to Galena, a distance of eight miles. Most of the right of way has been secured, and work of laying rails will begin at once. The road will be in operation by August. The line will connect at Galena with the Southwest Missouri Electric Railway.

SAN MARCOS, TEX.—Survey for new electric line between Luling and San Marcos has been started by San Marcos Valley Interurban Co. A. L. Davis is Pres.

FORT WORTH, TEX.—The Fort Worth & Rosen Heights Street Ry. Co. has accepted a franchise for its proposed extension. Work to begin as soon as main line is completed. Samuel Rosen is Pres.

DELTA, COLO.—County Commissioners have granted an electric road franchise to W. B. Stockham and Chas. Pike. The road will consist of two separate lines, one of which will run from Delta to Grand Mesa Lakes via Eckert and Cedar Edge. The other branch goes from Delta to Smith's Fork anthracite coal fields. The entire mileage will be about 90 miles. Work will probably commence within 90 days.

PORTLAND, ORE.—A franchise has recently been granted for construction of an electric railway from Forest Grove to city limits of Portland, and the ATLAS CONSTRUCTION & SUPPLY CO., of San Francisco, Cal., is expecting to commence construction work this month. The contract calls for a standard-gage electric railway from First and Stark Sts., Portland, out Stark to 12th to Overton, thence over Willamette Heights and through Willamette Valley to Hillsboro and Forest Grove, the latter being the terminus of the 26-mile line. Ninety-pound girder rails are to be laid within the city limits, with 60-lb. T-rails for the suburban portion. The equipment will consist of two electric locomotives fitted with four 75-HP. motors, three cars with mail and express compartments, twenty box cars for the suburban traffic, and seven standard cars. Power to operate the line will be rented from the General Electric Co., of Portland.

PORTLAND, ORE.—The Portland, Sandy & Mount Hood Electric Ry. Co. has filed articles of incorporation. Incorporators: Seneca Smith, City Napoleon Davis, Eastern Multnomah; Al. Lamber, East Portland, and others.

SAN DIEGO, CAL.—The San Diego Electric Ry. Co. purchased franchise for an electric railroad from corner of State and D Sts. to Old Town, for $1,100. C. McLeggan is Ch. Engr.

SAN JOSE, CAL.—The San Jose & Los Gatos Interurban Ry. Co. has applied for franchise for an electric railroad to be constructed over 12th and San Carlos Sts. Geo. C. Chadwick is Ch. Engr.

VANCOUVER, B. C.—The British Columbia Electric Ry. Co. has taken over the branch of the C. P. R., known as the Vancouver & Lulu Island Railway, and will commence immediately to convert it into an electric system.

CHILLIWACK, B. C.—The Chilliwack Light & Power Co., J. B. Morgan, Mgr., is planning to commence work early in spring on their power plant and electric railway; the latter to extend from Chilliwack to New Westminster. The power plant and transmission line is estimated to cost $125,000.

WINDSOR, ONT.—The company which will build an electric railway from this city through Leamington and Kingsville to Chatham, will be known as the Windsor, Essex & Lake Shore Rapid R. R. Co. The American head office will be 1020 Chamber of Commerce, Detroit, Mich. Work is expected to commence this spring.

WINDSOR, ONT.—It is stated that plans are under way looking to the construction of an electric railway between Windsor and Chatham. H. H. Welsh, of Chicago, Ill., and Wm. L. Wilson, of Port Huron, Mich., are interested.

LIGHT, HEAT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

ALBANY, N. Y.—The State River Improvement Commission was to meet early in February, to consider plans to harness the Sacandaga, Racquette and Black Rivers, in the Adirondacks, and utilize the 240,000 HP., worth $10,000,000 a year, now unused. The commission consists of H. A. Van Alstyne, State Engr. and Surveyor; Julius M. Mayer, State Atty.-General; Nicholas Van Vracken Franchot, State Supt. of Public Works; De Witt C. Middleton, Forest, Fish and Game Comr., and Wallace C. Johnson, of Niagara Falls, Engr. It is proposed to build a dam, costing from $300,000 to $500,000, on the west branch of the Sacandaga River, above Hadley, and one on the east branch of the same stream at Griffin. These dams will raise the water in Piseco Lake from 5 to 10 ft., and provide storage for 10,000,000,000 gallons of water.

CAMDEN, N. Y.—It is reported that this village has appropriated $40,000 for the construction of a municipal electric light plant.

HIGHTSTOWN, N. J.—Richard D. Norton, Mayor, is promoting plan for municipal electric light plant. Matter now before Council.

KEARNY, N. J.—Runyon & Cary, Electrical Engrs., of Newark, have been commissioned to prepare plans for an electric lighting plant for this town. Theo. C. Wildman is Town Clk.

BAYONNE, N. J.—Thos. Brady, Mayor, writes us that the city is progressing favorably in connection with the proposed electric plant, and will have one regardless of any obstacle. There are sufficient public spirited citizens who know the advantages and cost of producing light in this city, who are willing to subscribe for the total cost of the plant and allow the city to operate it at an interest rental until it is possible for the city to take it over to their own account.

OAKLAND, PA.—J. J. Flannery, owner of the Iroquois Apartments on Forbes St., will erect a $25,000 power plant on Atwood St., in connection with the building.

SHAMOKIN, PA.—F. W. Darling, 1120 Real Estate Trust Bldg., Philadelphia, informs us that all materials have been contracted for proposed improvements at plant of Shamokin & Coal Township Light & Power Co. Noted on Jan. 26.

WASHINGTON, D. C.—Bids are asked by District Commissioners until Mar. 20, for supplying electric generating plant for sewage pumping station. (Advertised, Engineering News.)

Bernard R. Green, Supt. Library Bldg. and Grounds, informs us that no steps have been taken regarding construction of central power station for building on mall. Legislation has not yet been obtained granting authority to build. Noted in full on Jan. 26.

BALTIMORE, MD.—Bids are asked until 11 a. m., Feb. 15, for electrical equipment for Bayview Asylum, as follows: (A) one 100-KW., D. C. generator, direct-connected to one 150-HP., simple automatic cut-off engine. (B) One 35-KW., D. C. engine type generator. (C) One 35-HP., D. C. motor, one 10-HP., D. C. motor, one 5-HP., D. C. motor. (AA) One 75-KW., D. C. generator, direct-connected to one 125-HP., simple automatic cut-off engine. (BB) Substitution of two (2) three-wire units for "A" and "B." Item "AA." may be substituted for item "A." Bidders must state in their proposal what allowance they will make for old plant now in use at Bayview Asylum. Lamar Hollyday, Supt. Dept. Charities and Corrections.

SUMTER, S. C.—Ladshaw & Ladshaw, Engrs., Spartanburg, S. C., write up that the electric plant in Sumter will be constructed at once. Designs and plans have been completed.

CAIRO, GA.—At the election held Jan. 25 it was decided to issue $5,000 of bonds for an electric light plant. Plans and specifications not yet made. R. L. Van Landingham is Mayor.

BIRMINGHAM, ALA.—The Birmingham Railway, Light & Power Co. is arranging for extensive improvements in Birmingham, Bessemer and vicinity which will include an expenditure of $200,000 at power-house in Birmingham for coal-hauling apparatus, coal-storage bins with a capacity of about 12,000 tons, mechanical stokers, etc., and the extension of gas mains at a cost of $50,000. The Bessemer improvements to include the building of a viaduct at a cost of $25,000 across the various railroads and $10,000 terminal station. About $20,000 will be devoted to the relaying of the South Bessemer line track between Powderly and Bessemer. Several new cars will also be added. Ford, Bacon & Davis, 24 Broad St., New York, are Engrs. J. A. Emery is Gen. Mgr.

LAKE CHARLES, LA.—C. H. Winterhaler, Mayor, informs us that city has under consideration the awarding of a lighting contract or the installation of a municipal plant. These propositions will be submitted to vote at election. Previously mentioned.

COVINGTON, KY.—Thomas J. Creaghead, 313 Walnut St., Cincinnati, O., Engr.-in-Charge, writes us that he has submitted preliminary estimates to council for erection of electric light plant. No steps have been taken. Plant would have capacity of 400 2,000-c. p. arc lamps and 2,000 16-c. p. incandescent. Estimated cost $100,000.

BRAZIL, IND.—The Brazil Electric Co. has awarded contract for its new power house to CUTSHALL & FLAGG, at $3,739.

EVANSVILLE, IND.—Bids are asked by the Evansville, Suburban & Newburg Ry. Co., until Feb. 15 for the erection of a power house in one of the suburbs. It is to be of press brick.

MIDDLETOWN, O.—Contract for lighting city streets for 10 years has been awarded to BOARD OF PUBLIC SERVICE, George S. Long, Secy.

PETERSBURG, IND.—Contract for building new power house in this city for Vincennes & Jasper Traction Co., has been let to CINCINNATI CONSTRUCTION CO., for $72,000.

BATTLE CREEK, MICH.—This city is reported to have given the Kalamazoo Valley Electric Co. a franchise for lighting and heating the city. It is reported to be the intention of the Kalamazoo Co. to absorb the Battle Creek Electric Light Co. and secure its water power. W. P. Stephens, Kalamazoo, is Supt.

BIRMINGHAM, MICH.—The Birmingham Gas Co. is reported organized to construct and maintain gas and electric light works in Birmingham; capital, $15,000. Stockholders: John T. Holmes, Clay C. Cooper and Ralph T. Aldrich, all of Detroit.

LUDINGTON, MICH.—H. M. Wallace, 319 Houseman Bldg., Grand Rapids, has stated that Warren & Pettigrew, of Fox Lake, Wis., probably will construct the gas plant at Ludington. Nine miles of mains will be installed.

HASTINGS, MICH.—Common council has granted a franchise to the Hastings Gas Co. for installing a gas plant. The company is composed of John Ott and Seymour Hill, of Albion, Mich., and F. W. Freese, of Ft. Wayne, Ind., and agrees to lay five miles of mains, install a plant and have same in operation by Oct. 1 next.

AMES, IA.—All proposals received by E. W. Stanton, Secy. Board of Trustees, of Iowa State College, for the erection and completion of a central heating station were rejected, as excessive. Proudfoot & Bird, 712 Crocker Bldg., Des Moines, are Archs.

ROYALTON, MINN.—City will install an electric light plant. $10,000 of bonds for this purpose have been sold.

DULUTH, MINN.—THE NATIONAL RY. CONSTRUCTION CO. which has general contract for Great Northern Power Co. dam, has received bids for building a spur track from Fond du Lac to power station. F. A. Cokefair is Ch. Engr. of Power Co. It is said that bids are being received for the construction of the canal system for the company. This will be one of the important pieces of work in connection with the development of the St. Louis River water power, and will cost $200,000. The Power company's engineers are now preparing plans and specifications.

ARKANSAS CITY, KAN.—City Council has granted a franchise to the Arkansas Valley Gas Development Co., a branch of the Morton-Levering syndicate, to supply the town with natural gas.

ENGLAND, ARK.—City has let contract to the MARTIN-REYNOLDS ELECTRIC CO. of Little Rock, Ark., for the construction of electric light plant. Cost, $5,000.

LEXINGTON, MO.—Chas. Reynolds, C. B. Leach and E. H. Burr have incorporated the Lexington Gas & Electric Co., with $80,000 capital.

SEDALIA, MO.—Joseph McWilliams & Co., of Louisville, Ky., are stated to have been selected by the Sedalia Water, Gas & Electric Co. to prepare plans and specifications for a new central power station and to erect same complete, together with all machinery and apparatus to operate the street railway and water-works and furnish current for the city and commercial lighting. Cost of plant will be about $145,000.

ST. LOUIS, MO—The North American Co., it is reported, will expend $2,000,000 on improvements to the plant of the Union Electric Light & Power Co. The American Co. can be addressed in care of the Union Electric Light & Power Co.

Bids are asked until Feb. 14 for lighting certain city streets. Contract covers use of 1,662 mantle lamps in the territory.

LEADVILLE, COLO.—The Board of Trade has under consideration plan for lighting plant. George W. Lancaster, East Sixth St., is a member of Board. M. Deems, Room 1, Iron Bldg., can be addressed for further details.

FOREST GROVE, ORE.—E. W. Haines and others have sold their interests in the electric light plant and mill to the Haines Electric Power Co., of Forest Grove. E. W. Haines, John Thornburg, C. W. Nottingham and J. Frank Watson are the incorporators. Capital, $50,000.

BERKELEY, CAL.—Benjamin Ide Wheeler, Pres., University of California, has asked State legislature that an electric plant be installed at Lick Observatory on Mt. Hamilton.

LOS ANGELES, CAL.—The Broadway Boulevard Improvement Association will probably erect an electric ligting plant. Major Jon H. Norton is interested. Funds have been pledged.

LOS ANGELES, CAL.—Bids are asked by the board of supervisors of Los Angeles county until 2 p. m., Feb. 27, for furnishing and installing electric motors and making certain changes in the heating and ventilating machinery at the new County Hospital buildings, on Mission road. C. G. Keyes, Clk.

NIAGARA FALLS, ONT.—Bids are asked until Feb. 17 for erection of power house, either of cut stone or granite, adjacent to Queen Victoria Park for the Electrical Development Co. of Ontario. E. J. Lennox, Toronto, Ont., is Arch.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

WORCESTER, MASS.—Frederick A. McClure, Cy. Engr., is preparing plans for a new bridge on Webster St.

PROVIDENCE, R. I.—A resolution has been introduced in City Council authorizing the building of an additional bridge over Woonasquatucket River at Harrison Ave.

JOHNSTOWN, PA.—Ordinance authorizing a $30,000 bond issue for the erection of overhead bridge in 12th Ward has been approved by Mayor Pendry.

WASHINGTON, D. C.—The bill for a bridge to be built by Soo road across Red River of the North, between Marshall County, Minnesota, and Walsh County, North Dakota, has passed the House and gone to the President for signature.

ATLANTA, GA.—The Bridge Committee, of which Councilman Bowen is chairman, has decided to request R. M. Clayton Cy. Engr., to advertise for bids for construction of the remainder of Edgewood Ave. bridge. The cost of completing the improvement will be about $40,000. About $2,000 of this amount, however, will be used in grading the approach to the bridge.

COLUMBUS, GA.—The Muscogee County Commissioners will erect two steel bridges across Randall creek—one on Macon road, near Upatoie, and the other on Buena Vista road.

DECATUR, ALA.—A bill has passed Senate authorizing the constructing of railroad bridges over Tennessee River here; over Pearl River at Smith's Ferry, Miss., and over Calumet River in Illinois.

DAYTON, O.—The Washington St. River bridge has been declared unsafe by Board Public Service. F. M. Turner is Cy. Engr.

CHILLICOTHE, O.—A bridge 100 ft. long, over canal and Indian creek on the Norfolk & Western Railway has collapsed. J. E. Crawford is Bridge Engr., Roanoke, Va.

JEFFERSON, O.—An issue of $200,000 in bonds has been authorized by County Commissioners to provide for the building of a bridge at Ashtabula harbor to replace the one condemned by United States government.

DAYTON, O.—Press reports state that a new bridge will be built at Washington St. as soon as money is available. F. M. Turner is Cy. Engr.

YOUNGSTOWN, O.—We are informed by F. M. Lillie, Cy. Engr., that the subject of constructing overhead bridge on Wood St. has been referred to Improvement Committee of Council. Est. cost $100,000.

CELINA, O.—(See under Streets and Roads.)

TROY, O.—We are informed that bids will be received by Fred J. Green, of Springfield, O., until Feb. 15 for constructing a bridge over Miami River at this point for the Springfield, Troy & Piqua Traction Co., E. M. de Bruin, Ch. Engr. Est. cost $12,000.

ROCHESTER, IND.—The Fulton County Council has authorized County Commissioners to issue $48,000 in bonds to provide money for bridge work, ditches, etc.

SIOUX CITY, IA.—J. M. Lewis, Cy. Engr., is preparing plans for proposed viaduct in Wall St. The plans will provide for a 1,100 ft. steel structure, extending from Fourth to Grand St., with filled approaches from each side.

ROCHESTER, MINN.—The contract for building Fifth St. bridge has been let to A. LESUER, for $4,950.

STILLWATER, MINN.—Plans for a high bridge over St. Croix River, in place of old one, have been ordered prepared. Myron Shephard is Cy. Engr.

MINNEAPOLIS, MINN.—Contracts for erecting a steel bridge over James River at Warner were awarded to A. Y. BAYNE & CO., City.

EXCELSIOR, MINN.—It is reported that a steel bridge will replace present wooden structure that crosses St. Alban's bay.

MADISON, NEB.—Bids are asked by County Commissioners until Feb. 14, for constructing and repairing bridges and approaches during year 1905. Emil Winter, County Clk.

PARKER, COLO.—The Santa Fe Ry. is making preparations for construction of a new bridge across Colorado River at Parker, to be used for the proposed cut-off through Southern New Mexico, Arizona and California. A. F. Robinson is Bridge Engr., Topeka, Kan.

ABERDEEN, WASH.—Former Mayor West has petitioned the council for franchise to build bridge across Chehalis River. Bridge to be completed within a year. Est. cost about $40,000.

GOLDENDALE, WASH.—County Commissioners have instructed the County Surveyor to prepare plans and specifications for a bridge across Swale creek on Eddings road and Auditor will advertise for bids for same to be submitted at April term of Commissioners' court.

SPOKANE, WASH.—Plans and specifications for construction of Havermale bridge have been prepared and include the cost of decking. The plans provide for a 110-ft. steel girder span, with steel floor beams, and supported by concrete piers. Est. cost $15,200. The plans for decking include the use of wooden floor joists, pine sheeting and a wearing surface of tamarack blocks. The cost of decking is estimated at $1,285, making the total estimated cost $14,485.

GOLDENDALE, WASH.—Bids are asked by A. M. MacLeod, County Audr., until April 4, for construction of a 120-ft. span combination bridge to be erected over Klickitat River and for construction of 180-ft. trestle approach to same.

LOS GATOS, CAL.—Bids are asked by B. P. Shuler, Pres. Bd. Trustees, until March 6 for building a concrete and rubble stone bridge across Los Gatos creek on Main St.

STOCKTON, CAL.—An ordinance was passed by Council authorizing Board Public Works to call for bids for filling approaches to bridge on Main St. Est. cost, $2,500.

LOS GATOS, CAL.—An ordinance has been introduced to Board of Trustees providing for the issuance of $24,000 in bonds for bridge and sewer purposes.

SAN BERNARDINO, CAL.—Bids are asked by Board of Supervisors until March 13, for construction of bridge over San Timoteo Creek, at Redlands Junction. L. A. Pfeiffer, County Clk.

TARA, ONT.—Bids are asked by R. Nicholson, Reeve of Arran Township, until Feb. 17, 6 p. m., for construction of two cement concrete bridge abutments, containing some 124 cu. yds.; one steel bridge 60-ft. span c. to c., 16-ft. roadway; and three bridges at last named with various kinds of flooring. R. McDowall, Township Engr., Owen Sound, Ont.

OTTAWA, ONT.—The Central Counties Ry. Co. has petitioned the Dominion Government for authority to build a bridge from Point Fortune to Carillon, Argenteuil County.

OTTAWA, ONT.—It is reported that bids will be received by Fred. Gelinas, Secy. Bd. Pub. Wks., until Feb. 20 for building three concrete piers and one abutment for Battleford bridge.

BONNERS FERRY, IDAHO.—It is stated that the construction of a bridge here over Kootenai River is under consideration. Cost, $30,000.

MINNEDOSA, MAN.—It is stated that Mayor A. W. Shaw, A. W. Spratt and others of this place are interested in securing the construction of a new steel bridge over Little Saskatchewan River. Plans will probably be prepared at once.

SASKATOON, N. W. T.—A resolution has been passed by Board of Trade asking for Government assistance for the immediate construction of a combined railway and traffic bridge.

FORT STEELE, B. C.—Petitions are being circulated asking the legislature to build a bridge across Kootenay here at a cost of $30,000. Hon. Wm. Ashley, Jr., is Engr.

SEAFORTH, ONT.—We are informed that bids will be received until Feb. 18 for constructing a steel bridge in Tuckersmith Township. Est. cost $2,000. G. S. Black, Reeve, Tuckersmith Township.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

CONCORD, N. H.—William M. Butterfield, Arch., Manchester, informs us that plans have been prepared and contracts will be let soon for a building for New Hampshire State Hospital. Estimated cost is $175,000 to $200,000. An appropriation will be made. The building will be of brick and granite, 230 x 175 ft., concrete floors.

SPRINGFIELD, MASS.—Bids are asked until Feb. 10 for erecting a technical high school (not including heating, ventilating, plumbing and electric work). Appropriation, $225,000. E. C. & G. C. Gardner, 33 Lyman St., are Archs. W. A. Ford, Chn. City Property Com.

WORCESTER, MASS.—Gillespie & Carrel, 1123 Broadway, New York, Archs., have drawn plans for a church, to be erected at Main St. and Moore Ave., for the First Baptist Society. Cost, about $100,000. Geo. C. Whitney, 57 Union St., is Chn. Building Com.

BOSTON, MASS.—A S. Brown, Jr., Surety Bonds, 85 Water St., Boston, sends us the following items: Contract for bath house at Nahant, Mass., was let to H. P. CUMMINGS CO., Boston, Mass., for $58,356. Bids for this work were received Jan. 3, but changes were made in the plans and contract awarded Jan. 31, as noted above. Contract for constructing storage building on Albany St., Boston, for R. H. White & Co., has been let to WHIDDEN & CO., 43 Milk St., Boston, for about $100,000. Peabody & Sterns, Archs., 53 State St., Boston. Contract for theater at 23 Church St., New Haven, Conn., for S. Z. Poli, has been let to JAS. O. LOUGHLIN, Hartford, Conn., for about $90,000. H. W. Maynard, Arch., 226 Tremont St., Boston.

BOSTON, MASS.—Peters & Rice, Archs., will prepare plans for an 8-story fireproof office building to be erected at 25-39 Franklin St.

PROVIDENCE, R. I.—Hoppin & Ely, Archs., 32 Westminster St., have awarded a contract to HARTWELL, WILLIAMS & KINGSTON, 607 Industrial Trust Bldg., for the 6-story brick and stone building, on Washington St., for the Providence Young Woman's Association. Cost, $160,000.

NEW LONDON, CONN.—Bids are asked until Feb. 21 for furnishing 332,000 hard building bricks. Lt.-Col. Chas. F. Powell, U. S. Engrs. (Advertised, Engineering News.)

NEW YORK, N. Y.—Plans have been filed by Schwartz & Gross, Archs., 35 West 21st St., for two 6-story brick flats, 75 x 87 ft., on 114th St., east of Riverside Drive, for Paterno Bros., 557 West 183d St. Cost, $280,000.

Bids are asked until March 11 by Bureau of Yards and Docks, Washington, D. C., for constructing a fireproof naval prison at U. S. Navy Yard. Building to be of concrete and steel construction. Mordecai T. Endicott is Ch. of Bureau. Specifications for this work are on file at New York office of Engineering News.

WELLS BROS. CO., 160 Fifth Ave., have the general contract to build a 16-story addition to the Woodbridge Building, at 100 William St. Estimated cost, $400,000. The contract also includes alterations to the present building, it is stated. Howells & Stokes, 100 William St., are Archs.

The New York Club will erect a new clubhouse at 29-33 West 45th St.

OSWEGO, N. Y.—Bids are asked until March 10 for material and construction of wagon shed and coal shed at Port Ontario, N. Y. Capt. W. M. Coulling, Q. M., U. S. A. (Advertised, Engineering News.)

ROCHESTER, N. Y.—Plans are being drawn for a 5-story office building to be erected by the Buffalo, Rochester & Pittsburg Ry. Co. next spring. Cost, $400,000. Clinton & Russell, 32 Nassau St., New York, are Archs.

NEW YORK, N. Y.—Bids were received on Feb. 6 by Board Education for general construction of school 109, Brooklyn. Wm. P. McGarry, 236 Huron St., Brooklyn, was lowest bidder, at $292,298.

Bids were received on Jan. 30 for constructing school 42, at Washington and Wendover Aves., Bronx. Lowest bid was submitted by Fanning & Reilly, 150 Fifth Ave., at $221,660.

NEW YORK, N. Y.—Bids are asked until Feb. 20, 11 a. m., for installing electric equipment in two schools in Manhattan Boro. and for general construction of a school in Middle Village, Boro. Queens., C. B. J. Snyder, Supt. School Bldgs., Dept. Education.

PITTSBURG (East Liberty post office station), PA.—The contract for new passenger station for Pennsylvania Railroad has been awarded to ROYDHOUSE, AREY & CO., of Philadelphia. The heating for the same was awarded to HARRY F. MURPHY & CO., of Philadelphia. Two direct-acting hydraulic elevators will be built by MORSE, WILLIAMS & CO., of Philadelphia. The construction of passenger and baggage tunnels at East Liberty and grading for driveways and station grounds was awarded to the COLUMBIA CONTRACTING CO., of Pittsburg. Total cost, between $300,000 and $400,000. The work will be pushed to completion as soon as possible.

ALLENTOWN, PA.—The Majestic Hotel Co. has had plans made by John C. Allen Co., Arch., 1114 Betz Bldg., Philadelphia, for a fireproof hotel, at Sixth and Linden Sts., Allentown. It is to be seven stories high, of Indiana limestone, brick and terra cotta, containing 160 rooms, 40 bathrooms, roof garden, palm garden, rathskeller. Estimated cost, $500,000. Address Miss J. C. Medlar, Room 4, B. & B. Bldg., Allentown, for particulars. Company will incorporate with $300,000 capital.

ALLEGHENY, PA.—Board of Education, Second Ward, has commissioned F. C. Sauers, 805 Penn Ave., Pittsburg, Arch., to prepare plans for an industrial school building. Four stories, 80 x 165 ft., brick and steel, fireproof, gas and electric light, laboratories, etc. Cost, $140,000. Prof. C. B. Connelley is Supt. Manual Training High School.

PHILADELPHIA, PA.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until Feb. 16 for look-out gallery at U. S. post office and custom house building at Philadelphia. (Advertised, Engineering News.)

LEBANON, PA.—Bids are asked until March 27 for construction complete of U. S. post office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

HOLLIDAYSBURG, PA.—Blair County Commissioners have voted to build an addition to county court house, to cost $100,000, according to the plans by William L. Plack, Arch., 1208 Chestnut St., Philadelphia, which have been approved.

WILKESBARRE, PA.—WILSON J. SMITH, who has contract for building Luzerne County court house, has awarded sub-contract for masonry and stone work to CARLUCCI STONE CO. Stone work will cost, it is said, about $375,000.

POTSVILLE, PA.—It is reported that the Philadelphia & Reading Coal & Iron Co., Reading Terminal, Philadelphia, will soon invite bids for an office building here.

BALTIMORE, MD.—Edward C. Carrington, 110 East Lexington St., as agent, has commissioned Edward H. Glidden, Arch., Wilson Building, 301 North Charles St., to prepare plans and specifications for apartment house, to be located at Mt. Royal and Maryland Aves. Structure is to be seven or eight stories high. Probable cost, $150,000.

Flournoy, Miller, Sparklin & Waters, Archs., Baltimore and Washington Sts., will prepare plans, it is stated, for an apartment house, to be located at Eutaw Pl. and Mosher St. Structure to be twelve stories high, steel concrete construction, fireproof throughout, electric wiring and fixtures, sanitary plumbing, heating system, two electric elevators. Cost of building and site will be about $800,000.

PORT DEPOSIT, MD.—Wyatt & Nolting, Archs., Builders' Exchange, Baltimore, have completed plans for dining-hall building for Tome Institute, Port Deposit. Three stories, stone, brick and steel, fireproof, etc. Cost, about $135,000. Bids will be received up to Feb. 7.

WASHINGTON, D. C.—Bids are asked until March 3 for constructing a steel and concrete floor in building No. 118, at Navy Yard. Mordecai T. Endicott, Ch. of Bureau Yards and Docks. Specifications for this work are on file at office of Engineering News, New York.

WASHINGTON, D. C.—Bids are asked until March 6 for construction of a mess hall and dormitory building at U. S. Soldiers' Home. Separate bids will be received for plumbing and gasfitting and for electric wiring. Baldwin & Pennington, 311 North Charles St., Baltimore, Md., are Archs. John W. Summerhayes, Constructing Officer.

WINCHESTER, VA.—Board of Trustees of the Handley Fund, at a recent meeting, authorized a committee to ask for bids for the construction of the John Handley Memorial Library, to cost $100,000. Building was provided for by Judge John Handley, of Scranton, Pa.

NORFOLK, VA.—Jones & Co. will erect a warehouse, 350 x 100 ft., on India Wharf property, recently acquired. E. TATERSON has contract for stone work and CROSS & SON contract for building.

BLUEFIELD, W. VA.—C. O'Leary is reported interested in project to build a 5-story building, 92 x 129 ft., at a cost of $125,000.

COLUMBIA, S. C.—Edwards & Walter, Archs., are preparing plans for Laurel St. School. Bids will be received soon. It will cost $40,000. Other schools contemplated are: Washington St. School, estimated cost, $60,000; Arsenal Hill School, $20,000; two in Ward 1, $20,000 each; Howard School, $22,000.

SAVANNAH, GA.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until March 3 for installation of conduit and electric wiring system for U. S. marine hospital at Savannah. (Advertised, Engineering News.)

Bids are asked also, until March 9, for installing low pressure steam heating and ventilating apparatus in the marine hospital building.

MOBILE, ALA.—Watkins & Hutchinson, Archs., 82 St. Francis St., are preparing plans for a 6-story hotel, 92 x 140 ft., for O. F. Crawthon. Cost, about $250,000.

BILOXI, MISS.—It is reported that the STANDARD CONSTRUCTION CO., First National Bank Bldg., Chicago, has been awarded the contract for constructing the U. S. post office at Biloxi, at $90,770. Building is to be completed May 15, 1908.

MERIDIAN, MISS.—Meridian Terminal Co. has accepted plans by Frank P. Milburn, Arch., of Columbia, S. C., for union station. Bids for construction will be asked soon. Cost, $250,000.

NEW ORLEANS, LA.—Favrot & Livaudais, Archs., Abraham Bldg., have completed plans for 4-story brick, white stone and terra cotta building, to be erected by the Eye, Ear, Nose and Throat Hospital. Cost, $150,000.

CHATTANOOGA, TENN.—Plans are being prepared by W. T. Downing for the erection of 5-story addition, 25 x 243 ft.; also fifth floor to old building, 60 x 243 ft., for Bernard Loveman. Work to be of fireproof or mill construction, steam heat, electric lights, elevators, etc. Cost, $75,000. Mr. Loveman will act as general contractor, and bids for the various materials will be received until March 1.

CINCINNATI, O.—F. M. Andrews, Arch., Conover Bldg., Dayton, O., has been retained by the Cincinnati Realty Co. to prepare plans for $1,000,000 hotel to be erected on the Pike Theater site. The architect will open offices in the First National Bank Bldg., Cincinnati.

City will issue $50,000 of bonds for remodeling city prison and House of Refuge. Work includes new plumbing and sanitary conditions. A new electric light plant will be installed.

COLUMBUS, O.—Wilbur T. Mills & Co., 233 North High St., will soon receive bids for a general city hospital building; brick and stone, 120 x 160 ft. Estimated cost, $100,000.

JEWETT, O.—Bids are asked by Chas. S. Beetham, Clk. Board Education, until noon, Feb. 17, for the erection of an 8-room brick school building, with stone trimmings. Charles Henry & Sons, Archs., Akron, O.

CINCINNATI, O.—The Cincinnati Southern Ry. Co. is having plans prepared for their freight depots. Concrete and brick will be used in the construction of the two buildings, which will cover 16 squares. Cost, $250,000.

TOLEDO, O.—Plans have been approved for proposed Wabash Ry. Co.'s new passenger station on Tenth St. The plans were prepared by Theo. C. Link, 306 North Sixth St., St. Louis, Mo., and W. S. Newhall, Ch. Engr., of Wabash. Estimated cost, $500,000. There will be an 800-ft. train shed of steel and glass construction. A power plant will be built in connection with station. All building work will be fireproof.

MAGNETIC SPRINGS, O.—Wilbur T. Mills & Co., 233 North High St., Columbus, O., will prepare plans for a 3-story hotel for the Magnetic Springs Hotel Co. Estimated cost, $100,000.

BATTLECREEK, MICH.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 5, for the construction complete (except heating apparatus) of the U. S. post office.

CHICAGO, ILL.—The Trustees of the Chicago Home for Incurables, 56th St. and Ellis Ave., plan to enlarge building.

The site, bounded by Augusta, Elmwood, Scoville and Thomas Sts., has been selected by the Oak Park Hospital Association for the building which is to be erected next spring at a cost of $100,000. N. A. McClary is Pres.

Frost & Granger, Archs., The Temple, have plans for a $125,000 building for Hyde Park Y. M. C. A., to be located at 53d St. and Madison Ave.

William H. Barry will erect a store and apartment building at Evanston and Lawrence Aves., at cost of $175,000.

The Illinois Athletic Club has acquired site at 145-147 Michigan Ave. A $500,000 clubhouse will be erected upon it. Plans have been drawn by Barnett, Haynes & Barnett, Archs., Frisco Bldg., St. Louis. Bids will be received by Geo. D. Barnett, Railway Exchange Bldg., for construction of the proposed 12-story clubhouse.

The Illinois Tunnel Co. has secured $2,500,000 site at Taylor St. and Stewart Ave. for system of general warehouses which will cost $1,500,000. Albert G. Wheeler is Pres. of Co. and Edward W. Gearhart, Secy.

CHICAGO, ILL.—President Edw. J. Brundage of the county board has announced that within a short time the commissioners will consider plans for the erection of a new court house, to cost $3,000,000; the amount to be raised by a bond issue. H. W. Huehl, 59 Metropolitan Block, is County Arch. The committee appointed to advise ways and means for erecting a new county building is as follows: John G. Shedd, Chn.; Harry G. Selfridge, Graeme Stewart, Walter H. Wilson, Axel Chytraus, Harris W. Huehl, William McLaren, Edwin K. Walker, Louis H. Mack, William C. Hartray. It is proposed to erect a modern office building, about 10 stories high. County building was recently burned.

A. E. Robinson, Arch., 84 LaSalle St., is preparing plans for a fireproof warehouse, to be erected at 52d St. and Stony Island Ave., for J. A. Carroll, 155 East 53d St. It will be five stories high, 120 x 100 ft., built of brick, steel and concrete, with composition roof, press brick on three sides. Cost, about $100,000.

The Chicago Portrait Co. will erect a $300,000 building on site at Wabash Ave. and Congress St. Holabird & Roche, Monadnock Bldg., are Archs.

New public schools and additions, to cost nearly $2,000,000, have been ordered by the buildings and grounds committee of the Board of Education; 21 buildings will be comprised in the list. One will be erected on the North side and the other on the South side. They will cost $400,000 each.

DEKALB, ILL.—Bids were received on Jan. 30 for constructing U. S. post office. C. E. Carson, of Chicago, was lowest bidder, at $57,639. W. J. McAlpine, Dixon, Ill., bid $58,550. (Advertised, Engineering News.)

CEDAR RAPIDS, IA.—Dieman & Fiske, Archs., Granby Bldg., Cedar Rapids, will receive bids until Feb. 15 for a 3-story store and office building, 60 x 140 ft., for the Palmer Building Co. Brick, composition roof, modern plumbing, etc. Cost, $30,000.

MILWAUKEE, WIS.—Architects will soon be asked to prepare plans for a new Y. M. C. A. building, which will be eight stories high, thoroughly modern, of brick and stone, fireproof construction. C. B. Willis, Gen. Secy., 147 Fourth St., is in charge. Cost, about $350,000.

MADISON, WIS.—W. S. Eames, of Eames & Young, Archs., Chestnut and Seventh Sts., St. Louis, Mo., has been engaged as consulting architect by the commission which has in charge plans for the $5,000,000 state capitol building, at Madison. Plans submitted by Cass Gilbert, 79 Wall St., New York, were accepted, it is reported. Second and third choices were the plans submitted by Henry C. Koch, of Milwaukee, and Ferry & Clas, of Milwaukee, respectively.

SUPERIOR, WIS.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until March 28 for constructing (except elevators, heating apparatus, electric wiring and conduits) of U. S. post office and custom house at Superior. (Advertised, Engineering News.)

ALBERT LEA, MINN.—Butler Bros., St. Paul, Minn., were lowest bidders, at $25,700, for construction of U. S. post office. (Advertised, Engineering News.)

MINNEAPOLIS, MINN.—D. A. Omeyer, Arch., 503 Scandinavian-American Bank Bldg., St. Paul, is preparing plans for the State Business College of Minneapolis. It will be four stories high, 166 x 66 ft., fireproof, of concrete-steel construction, faced with stone and press brick. Cost, about $70,000. G. A. Golder is Pres., 510 Dayton Bldg., Minneapolis.

HASTINGS, NEB.—Bids are asked until March 1 for installing low pressure steam heating and ventilating apparatus in post office. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

MAGNOLIA, ARK.—Bids are asked until March 12 for erecting a court house here. William S. Hull, Arch., Jackson, Miss. R. S. Warnock, Public Bldg. Comr.

ST. LOUIS, MO.—Bids are asked until Feb. 10 for erection of $205,000 Shields School, for which plans by W. B. Ittner, Supt., were previously reported as having been adopted by the Board of Education.

SAN ANTONIO, TEX.—Bids are asked until 11 a. m., Feb. 16, for construction of a brick administration building, including installation of plumbing, hot water heating, and wiring for electric lighting at Fort Logan H. Roots, Ark. Robert R. Stevens, Q. M.

EDNA, TEX.—The county commissioners will receive plans, specifications and bids for a court house, cost not to exceed $45,000, to be built as near fireproof as possible and to be heated by stoves. Plans will be received until March 1. A full set of working drawings will be required, as follows: Foundation plan, first floor plan, second floor plan, roof plan, four elevations, two sections and all necessary details. Each contractor will be required to furnish a certified check for $2,000.

SEATTLE, WASH.—George Kinnear will erect a department store building at Pike St. and Fourth Ave. Plans have been prepared by John Graham. It will cost about $200,000.

SAN FRANCISCO, CAL.—Contracts have been let as follows, it is reported, by Reid Bros., Claus Spreckles Bldg., Archs., for furnishing material and labor for the erection of Fairmont building: Carpenter work, McPHEE CO., at $88,635; metal work, PATRICK NOBLE, at $6,000; plastering, SMYTH BROS., at $54,700; two contracts to the WESTERN EXPANDED METAL FIREPROOFING CO., at $23,419 and $108,584.

OGDEN, UTAH.—Bids were received on Feb. 1 for constructing U. S. post office in this city, as follows: Standard Construction Co., Chicago, Ill., $182,000; time as specified. Tom Lovell, Denton, Tex., $155,375; time as specified. A. & J. McDonald, Salt Lake City, Utah, $207,731; time, Nov. 1, 1907. Campbell Building Co., Salt Lake City, Utah, $179,600; time as specified. J. H. Wiese, South Omaha, Neb., $167,450; time, Dec. 1, 1907. Oliver Hodgson, Salt Lake City, Utah, $201,769; time, Dec. 1, 1907.

WATER SUPPLY AND IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

CONCORD, N. H.—The following bills have been introduced in State Legislature: Bill to incorporate and charter the Charlestown Water and Sewer Co. of Charlestown, N. H.; bill to revive and extend the charter of the Coos and Essex Water Co., of Stratford, N. H.; bill to allow the Suncook Water-Works of Suncook, N. H., to extend their pipe lines to and along the streets of Hookset Village.

HOLDEN, MASS.—Henry W. Warren, Chn. Water Comrs., writes us that specifications for hydrants, valves and gate boxes were sent out Feb. 1, and that bids for their supply will be opened Feb. 15. Specifications for laying about six miles of pipe are now being made, and later on they will be sent to contractors on application. Lewis E. Hawes, Boston, Mass., is Des. Engr.

NEW YORK, N. Y.—Mayor McClellan has instructed the Aqueduct Commission, J. Waldo Smith, Ch. Engr., to proceed with the preparation of plans for the two new reservoirs in the Croton watershed recommended by the Burr-Hering-Freeman Commission. They are to supplement the present dam to impound water now going to waste, and both together will cost $4,000,000.

NEW YORK, N. Y.—Bids were received Feb. 1 by Commissioner Water Supply, Gas and Electricity for furnishing 700 four-nozzle post hydrants and 40 two-nozzle fire-hose connection hydrants. Jno. Fox & Co., 253 Broadway, New York, being lowest bidder at $52,045 and $2,950, respectively.

SYRACUSE, N. Y.—Bids are asked by Board Contract and Supply until 1.30 p. m., Feb. 14, for furnishing coated cast-iron pipe, as follows: 180 tons 12-in., 35 tons 10-in., 110 tons 8-in., 40 tons 6-in., 9 tons special castings. Frederick T. Pierson, Clk.

ROCHESTER, N. Y.—Bids were received Feb. 1 by Board of Contract for cast-iron pipe to be used this year in extending Hemlock and Holly mains. Contract for pipe amounts to about $100,000, and there were three bidders, U. S. Cast-Iron Pipe & Foundry Co., R. D. Wood Co. and Warren Foundry Co. E. A. Fisher is Cy. Engr.

PITTSBURG, PA.—Plans and specifications for construction of sand filtration system may be seen at New York office of Engineering News, 220 Broadway. Plans and specifications are also on file at the Chicago office of the above paper. Bids are asked until March 8, as is stated in our advertising columns.

FORT DU PONT, DEL.—Bids are asked until March 8 for extension of water main at Fort Du Pont. Capt. Louis F. Garrard, Jr., Q. M., U. S. A., Delaware City, Del. (Advertised, Engineering News.)

FORT CASWELL, N. C.—Bids are asked by R. H. Williams, Q. M., U. S. A., until March 21 for sinking 6-in. tubular deep well at this fort.

OXFORD, N. C.—We are informed that following contracts have been let for equipment, etc., for water-works, electric lighting and ice plant, bids for which were opened Jan. 25. Henry A. Pressey, Washington, D. C., is Consult. Engr.: GOULDS MFG. CO., Seneca Falls, N. Y., 800-gallon triplex pump; REEVES ENGINE CO., Trenton, N. J., 90-HP. vertical engine; COLE BOILER CO., Newnan, Ga., two 150-HP. boilers; WESTINGHOUSE ELECTRIC & MANUFACTURING CO., Pittsburg, Pa., electric power station equipment; CHESAPEAKE CONSTRUCTION CO., Norfolk, Va., pole lines, arc lights, etc., secondary wiring, inc. incandescent lights; YORK MFG. CO., York, Pa., 15-ton ice plant; CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., 100,000-gallon water tower; GLAMORGAN PIPE & FOUNDRY CO., Lynchburg, Va., cast-iron pipe and specials; hydrants and gate valves.

GREENVILLE, S. C.—Paris Mountain Water Co., G. H. Rettew, Gen. Supt., is completing arrangements for construction of two additional reservoirs of capacity of 20,000,000 and 110,000,000 gallons.

CAIRO, GA.—Plans and specifications for water-works and electric light plant are reported under way, and as soon as these are completed competitive prices on machinery and equipment will be wanted. R. L. Van Landingham is Mayor.

PLANT CITY, FLA.—It is reported that S. E. Mays, who has franchise for water-works, desires bids for a plant to cost about $10,000.

MARKSVILLE, LA.—We are informed that town will purchase private lighting plant and will install water plant in connection with it. Bids will probably be received March 1. Ira W. Sylvester, C. E., Alexandria, La., is Des. Engr. and Mayor J. A. Tassin is official in charge.

NEW ORLEANS, LA.—We are informed that revised specifications for laying sewers and furnishing and laying water pipes, etc., were to be passed upon by the Sewage and Water Board at an early date; and also the revised specifications for furnishing the water-works pumping machinery, consisting of four 20,000,000-gallon pumping engines, three 40,000,000-gallon centrifugal pumps, etc., will be acted upon at the same time. The work will at once be readvertised, and the advertisements for bids will call for contracts which will amount to about $1,250,000. Geo. G. Earl is Gen. Supt. and F. S. Shields, Secy. Sewerage and Water Board of New Orleans.

CHATTANOOGA, TENN.—It is stated that City Water Co. will commence work about March 1 on the plant to supply Hill City, mentioned in our issue of Feb. 2. Est. cost of plant is about $20,000.

MARION, KY.—We are informed that Granberry Jackson, C. E., Nashville, Tenn., is engineer for water-works system to be built here.

PRINCETON, KY.—Granberry Jackson, C. E., Nashville, Tenn., has submitted preliminary report, etc., on water supply for this city, and as soon as Council takes action on it, he will prepare detail plans, etc.

DAWSON SPRINGS, KY.—Election may be held to vote on establishing water-works.

COVINGTON, KY.—George Hornung, Consult. Engr., 612 Johnston Bldg., Cincinnati, O., has been employed by city to investigate and report upon the most feasible plan for the laying of a new 30-in. main supply pipe across the Licking River, and to also examine the condition of pumping plant and report regarding improvements which would reduce cost of pumping and delivering water.

CLEVELAND, O.—Bids are asked by W. J. Springborn, Secy. Bd. Pub. Serv., until Feb. 24 for furnishing and delivering all water meters that may be required during 1905. Estimated quantity is 10,000 ⅝-in., 100 1-in., 20 2-in., five 3-in., 15 4-in., and four 6-in. (Advertised, Engineering News.)

ELMWOOD PLACE, O.—Mayor Jno. H. Bart writes us that Council may in the spring order all water consumers to put in meters. Nothing definite has been decided at present.

NORWOOD, O.—Bids are asked by Board Public Service until Feb. 18 for furnishing two horizontal return tubular boilers, for brick work (including furnaces) and concrete foundation for setting of said boilers; also for one steel smokestack and breeching. R. N. Edwards, Clk. Bd. Pub. Serv.

NEWARK, O.—Owing to injunction proceedings it is state that Board of Public Service received no bids for construction of water-works. Work will be readvertised later on. C. H. Wells is Cy. Engr.

JEFFERSONVILLE, IND.—Under new agreement with city, it is stated that local water-works company will either put in a filter or build new plant.

RUSHVILLE, IND.—We are informed that no steps have been taken as yet toward water-works improvements. It is probable, however, that some work may be done this summer. R. J. Greenwood, Cy. Engr.

MORRISTOWN, IND.—Town Trustees are considering installation of water-works.

OOLITIC, IND.—Town votes to install water-works.

ALPENA, MICH.—Alpena Water Co. has offered to sell its plant to city for $60,000, and matter will be voted on at special election Feb. 13.

EUREKA, ILL.—Water-works projected; supply to be from deep well, and water tower to be erected.

WATERMAN, ILL.—Bids are stated to be asked by S. M. Henderson until Feb. 15 for construction of water-works system at this place.

MONROE, WIS.—Election will be held to vote on purchase of plant of Monroe Water-Works Co.

SHEBOYGAN, WIS.—Negotiations are under way for purchase by city of plant of City Water Co.

MENASHA, WIS.—Bids are asked by Mayor and Council until Feb. 23 for pumping machinery, pipe, hydrants, valves, materials and supplies for water-works system for this city. G. C. Morgan, Engr., 169 Jackson Boulevard, Chicago, Ill.; A. J. Henning, Mayor; S. S. Little, Cy. Clk.

CRESTON, IA.—Contract for settling basin at Summit Lake for local water-works company is stated to have been let to GEO. AURACHER; cost, about $8,500.

SIOUX CITY, IA.—Water-works trustees recommend that city water-works system be improved by lowering the pumps, and installing new mains and hydrants at a cost of about $35,000. J. M. Lewis is Cy. Engr.

INDIANOLA, IA.—We are informed that Public Water, Power & Heating Co., J. M. Harlan, Pres., is now ready to let contracts for its proposed improvements. Pump engines and filters are contemplated.

FORT SNELLING, MINN.—Bids were opened Jan. 23 by Capt. R. M. Scofield, C. Q. M., St. Paul, Minn., for an addition to pump house at Fort Snelling and for new engine, the low bidders being F. J. Romer, St. Paul, Minn., at $1,675 for pump house addition, and E. F. Sands, at $3,000, for the pump.

STILLWATER, MINN.—Stillwater Water Co., according to reports, is to extend its mains this spring to supply spring water to business part of city.

FORT McKENZIE, WYO.—Contract for laying 4,000 ft. water and sewer mains at this fort has been let to HUGHES & STEWART CONSTRUCTION CO., Denver, Colo., for $2,725.

WOODWARD, OKLA.—Council has granted franchise to Denver, Colo., parties, who will, it is said, install water-works to cost $50,000.

FORT RENO, OKLA.—Bids are asked by Robt. H. Stevens, C. Q. M., San Antonio, Tex., until March 3 for construction and erection of 60,000-gallon wooden tank and trestle at Fort Reno, Okla.

ROCKFORD, COLO.—Council will issue $5,398 of bonds for construction of water-works.

FORT LOGAN, COLO.—E. B. HENDRIC, 1635 17th St., Denver, Colo., was awarded contract, at $3,807, for 80-HP. boiler and 27,000-gallon steel receiving tank at this post. Bids were opened Jan. 28.

SEATTLE, WASH.—Bids are asked by C. B. Bagley, Secy. Bd. Pub. Wks., until Feb. 18 for construction of water main in Phinney Ave., at est. cost of $34,900. Work requires 9,125 ft. 12-in. and 22,325 ft. 8-in. machine banded wood pipe, 1,075 ft. wrought-iron galvanized 2-in. pipe, eight 16-in., 31 8-in. and ten 2-in. gates, 39 valve boxes and 8,400 lbs. special castings.

TACOMA, WASH.—City Engineer Davis, according to reports, is to at once commence plans and specifications for new water system based on the McConihe-Pohle air lift plan.

MONROVIA, CAL.—City Trustees favor making $59,000 bond issue, proceeds in part to be used as follows: Extension of municipal water system, $20,000; water bearing lands, $10,000; purchase of meters from individual owners, in order to give the city full control of system, $55,000; roofing reservoir, $6,000.

SAUSALITO, CAL.—Ordinance has been before trustees to vote bonds for acquisition of water distributing system. O. F. Meldon is Town Atty.

PHOENIX, ARIZ.—Following bids were received Jan. 28 at office of Commissioner of Indian Affairs, Washington, D. C., for constructing water-works system at Phoenix School: Pacific Coast Mfg. Co., Los Angeles, Cal., $6,789; W. D. Lovell, $7,500; James Stanley, San Francisco, Cal., $7,984.

BOISE, IDAHO.—City may vote Feb. 11 on issue of $500,000 of bonds for purchase of the cold water plant of the water company and the Walling Canal, and for appropriating $210,000 for enlargement and maintenance of city water system.

EAST TORONTO, ONT.—Bids are asked until Feb. 20 for material and labor for erection of reinforced concrete pumping station. W. H. Clay, Town Clk.; John Galt, Engr., Toronto, Ont.

CALGARY, ALTA.—J. S. Dennis, Supt. of Irrigation of Canadian Pacific Ry., writes us under date of Feb. 2 that they were about to award contracts for an extension of the Canadian Pacific Ry.'s irrigation system, comprising some 60 miles of secondary canal. The work was not advertised, some of the firms who were working on the main canal and other representative contractors in the West being asked to submit bids.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Common council has passed loan order of $800,000 for construction of sewers. Loan is provided for under Chapter 426, acts of 1897. H. V. Mackey is acting Supt. of Streets. Estimated cost of reconstructing the sewer in Broadway, South Boston, is placed at $8,935 for one sewer in roadway and $11,420 for two sewers, one in each sidewalk.

SPRINGFIELD, MASS.—Arthur A. Adams, Supt. of Streets, will recommend an appropriation of $40,000 for sewers and drains this year.

NEW BEDFORD, MASS.—William F. Williams, Cy. Engr., in annual report to city council recommends that certain sewer outlets be extended.

NORTHAMPTON, MASS.—Mayor T. M. Connor has announced that the state board of health has granted the city an extension of time to December 1, 1910, in which to make the larger part of an extension of its main sewer to Connecticut River. This work will cost about $100,000. Noted fully on Jan. 19.

BRIDGEPORT, CONN.—It is estimated that it will cost $4,000 for continuation of the Noble Ave. trunk sewer. Hon. John J. Phelan and V. R. C. Giddings, an attorney, are interested in the project. H. G. Scofield is Cy. Engr.

WATERBURY, CONN.—State legislature will be petitioned for authority to sell $200,000 of sewage disposal bonds; also for right to issue $75,000 of bonds for high-water service system, and $50,000 for remodeling city hall.

AUBURN, N. Y.—The estimated cost of the proposed trunk sewer for the Fourth, Fifth, Sixth and Seventh Wards, including disposal works, is reported to be $135,000. This allows $30,000 for the disposal works. Plans have been forwarded to Daniel Lewis, State Health Comr., at Albany. Plans prepared by Geo. S. Pierson, of Kalamazoo, Mich., and J. W. Ackerman, Cy. Engr. Noted on Jan. 19.

BUFFALO, N. Y.—A hearing will be given on Feb. 23 to proposition to build a sewer in Virginia St. to the Erie Canal. William Franklin was lowest bidder for work, at $68,500, last June.

NEW YORK, N. Y.—An appropriation will be asked from Board of Estimate to install sewer system in Central Park to divert sewage from the lakes. It is announced that amount to be requested will be $350,000. Jefferson Seligman, 11 East 59th St., is Chn. of an advisory cabinet which will act in the matter in connection with John J. Pallas, Comr. Parks.

BATAVIA, N. Y.—Council has passed an ordinance providing for a bond issue of $800,000 for the construction of a sewer system in this city.

WEST HOBOKEN, N. J.—Right of way has been secured, it is reported, for proposed joint trunk sewer to be built by towns of Weehawken and West Hoboken.

ELIZABETH, N. J.—William H. Luster, Jr., Cy. Surveyor, has reported to council in favor of the construction of a sewer at Jersey Ave. and Bayway, which would cost about $30,000.

NEWARK, N. J.—The district in the vicinity of Broad and Murray Sts. and at Central Ave. and Duryea St. are reported by Edward S. Rankin, Engr. of Sewer Dept., in his annual report, to be in need of sewerage. This project probably will be taken up this year.

OCEAN GROVE, N. J.—Dr. J. H. Alday, Sanitary Officer, is said to have recommended that a septic sewage disposal system be installed here.

PHILADELPHIA, PA.—Contracts for sewerage have been awarded as follows: Reconstruction of Cohocksink sewer, in Girard Ave., from Mascher to Front Sts., and in Front St., from Willow, to J. H. LOUCHHEIM. Extension of Magee St. sewer from Delaware Ave. to the bulkhead line and from the terminus at Mifflin St., westwardly to Torresdale Ave., to DAVID PEOPLES. Extension of Pratt St. sewer from Leiper to Gual, to DAVID McMAHON. Sewers will cost, in aggregate, about $200,000.

WEST CHESTER, PA.—It is stated that sewerage under consideration will approximate $300,000.

WILMINGTON, DEL.—City council may appropriate $100,000 this year for sewer improvements, etc.

BALTIMORE, MD.—Sub-committees on sewer and loan improvement committee recommend the bacterial treatment of sewage; cost of construction estimated on a basis of 1,000,000 population at the maximum amount of $10,000,000; cost of construction and maintenance to be provided for by direct taxation. Bacterial treatment of sewage is favored in preference to proposed filtration plan. Edward Hirsh is Chn. of sewer sub-committee. Noted on Jan. 19.

WASHINGTON, D. C.—Bids are asked by District Commissioners until March 6 for constructing twin siphons of the sewage disposal system crossing the Anacostia River. (Advertised, Engineering News.)

The contract for 600,000 bricks, to be used in sewer construction, was awarded to the SAVAGE FIRE BRICK CO., of Johnstown, Pa., at $16.50 per 1,000. One lower bid, $11.80, was received, but the samples submitted did not meet the specifications.

Contract for the construction of lower section of the B St. and New Jersey Ave. sewer, together with sewerage conduits and twin sewers, was awarded to the GAYER-PETER CONSTRUCTION CO., at $32,761. There were six bidders.

ATLANTA, GA.—Ordinances have been introduced in council providing appropriations of $25,000 for extending the Butler St. sewer and $25,000 for extending the Ormo St. sewer.

MACON, GA.—About six miles of sewers will be installed. Bonds for work have been sold and $40,000 is stated to be available now for beginning construction. J. W. Wilcox is Cy. Engr. Surveys are nearing completion.

GULFPORT, MISS.—H. D. Moore, Mayor, state it is proposed to construct a sewer system at a cost of $20,000. Contracts will be let in about two months. C. W. Foster is Engr. Noted on Jan. 19.

NEW ORLEANS, LA.—See under Water-Works.

CHATTANOOGA, TENN.—Mayor Alex. W. Chamblis in his annual message to council recommends an expenditure of $125,000 for improving sewer system. He recommends also an appropriation of $100,000 for erection of a city hall.

COVINGTON, KY.—W. E. Gunn, City Engr., in his annual report recommends that Willow Run sewer be extended to the Ohio River on the north and the corporation line on the south.

BAY CITY, MICH.—Contract for Belinda St. sewer was awarded to P. RYAN, at $3,150.

LANSING, MICH.—John H. Algate, of Lansing, submitted lowest bid, $24,437, for constructing second portion of Weinman Creek sewer, for which estimates were received on Jan. 30.

COLDWATER, MICH.—Bids are asked by the Board of Public Works until Feb. 21, instead of Jan. 26, for the construction of about 10,076 ft. of 10 to 24-in. sanitary sewers. P. H. Sweeney, Pres.; W. H. King, Cy. Clk. (Advertised, Engineering News.)

CHAMPAIGN, ILL.—Construction of Boneyard Creek sewer is under consideration by Drainage Committee. Cost is estimated at $75,000 to $117,000.

DES MOINES, IA.—Bids are asked until 11 a. m., Feb. 16, for constructing sewer in Norton Ave. W. W. Wise, Bd. Public Works.

ST. PAUL, MINN.—E. J Kirkland was lowest bidder on Palace St. sewer system, at $7,250.

IOLA, KAN.—It is said that HENLEY & RITCHIE have secured the contract for constructing sewers in Sewer Dist. No. 9, at $14,000.

SOUTH OMAHA, NEB.—Senator L. C. Gibson has introduced a bill in state senate providing for the issuance of $250,000 of sewer bonds. City is now preparing plans and specifications for the proposed system. Frank Koutsky is Mayor; W. P. Adkins is Pres. City Council.

ST. LOUIS, MO.—Bids are asked until Feb. 14 by the Board Public Improvements for constructing sewers in several sewer districts, aggregating 13,335 ft. of 12, 15 and 18-in. pipe sewer; 1,070 ft. 2 × 3-ft.; 330 ft. 20 × 30-in.; 145 ft. 3 × 4½-ft.; 400 ft. 2 × 4-ft.; 1,210 ft. 2 × 3-ft.; 1,915 ft. 22 × 33-in.; 1,085 ft. 20 × 30-in., and 414 ft. 2 × 4-ft. brick sewer. Waller Edwards is Secy.

KANSAS CITY, MO.—E. A. Harper, Cy. Engr., informs us that city has laid out, in a general way, the needs of growing city in way of large surface drains and sewage disposal for outlying districts, but that project is at present too costly to put into effect. A board of freeholders is drafting a new city charter; this will be voted on in March. This charter will provide for funds to construct sewers. Detail plans and specifications will be made after new charter is adopted and money is provided. Project was noted fully on Jan. 19.

TEMPLE, TEX.—It is reported that applications for sewer franchises will be considered by city council.

HOUSTON, TEX.—Bids are asked until Feb. 15, noon, for constructing a 4-ft. metal concrete sewer, 400 ft. long. John W. Maxey, Supt. Roads and Bridges. Blake Dupree, County Judge.

SEATLE, WASH.—Bids are asked until Feb. 18 by C. B. Bagley, Secy. Bd. Pub. Wks., for constructing sewer in Tenth Ave. Northeast, with septic tank. Estimated cost, $10,500.

OXNARD, CAL.—C. J. Elliott, City Clk., has stated that it is proposed to construct a sewer system. The proposition has not yet been submitted to vote at election. No engineer has been selected.

LAJOLLA, CAL.—G. A. d'Hemecourt, City Engr. of San Diego, has prepared plans for a sewer system for this place.

WINNIPEG, MAN.—Bids will be received soon for construction of a sewer in Corydon Ave. Estimated cost, $39,000. H. N. Ruttan, Cy. Engr., has prepared estimates of cost of six proposed sewers which will total $21,056. The entire sewer system may be reconstructed. C. J. Brown is Cy. Clk.

TORONTO, ONT.—It is reported that a new sewer system will be recommended for the East End. Cost, about $80,000.

LOS GATOS, CAL.—Bids are asked until Feb. 13 for construction of sewer for western portion of town. K. H. Erickson, Clk. Bd. Trustees.

GARBAGE DISPOSAL—STREET CLEANING

The names of parties awarded contracts are printed in capital letters.

WATERBURY, CONN.—Bids are asked by Commissioners Public Health until Feb. 20 for removing garbage and oual for one year from April 1. Geo. H. Nettleton, Cy. Clk.

JACKSONVILLE, FLA.—Board Public Works has accepted proposition of Judge A. O. Wright for installation of garbage reduction plant.

CLEVELAND, O.—Council has authorized expenditure of $65,000 on the garbage plant.

GRAND RAPIDS, MICH.—J. W. Flowers, Toledo, O., representing Toledo Development Co., has made proposition to municipal garbage commission, looking to formation of local corporation to undertake reduction of garbage of this city.

ST. LOUIS, MO.—Ordinances have been before Council providing for equipment of a garbage system at a cost not to exceed $65,000. Hiram Phillips is Pres. Bd. Pub. Wks.

FORT SAM HOUSTON, TEX.—Contract for construction of garbage crematory at this fort is stated to have been let to LEWIS & KITCHEN, Kansas City, Mo., for $4,925.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

NASHUA, N. H.—E. J. Johnson, Cy. Engr., informs us that the paving of Main St., 6,000 sq. yds., is yet only projected, no appropriations having been made, nor bids called for. Est. cost, $15,000.

WORCESTER, MASS.—Milford Quarry & Construction Co., Milford, N. H., was low bidder Feb. 6 for furnishing city with 12,000 sq. yds. paving blocks, 35,000 ft. granite curb, 2,000 ft. circular curb and 200 circular corners. Walter E. Hassom is St. Comr.

HARTFORD, CONN.—Bids are asked by Connecticut River Bridge and Highway Dist. Comr. until Feb. 27 for filling and grading railroad tracks, streets and approaches, about 325,000 cu. yds.

DUNKIRK, N. Y.—Jas. P. Morrissey, Cy. Engr., writes us that this city is contemplating a very large amount of public work this year in the line of paving, sewers, bridges, etc. Mr. Morrissey is also the City Engineer of Fredonia, N. Y.

NEW YORK, N. Y.—The Board of Estimate has allowed $3,500,000 or repaving work in the five boroughs.

ALBANY, N. Y.—Walter Melens, Cy. Engr., informs us that nothing definite is being done as yet relative to the extension of Manning Boulevard.

NEW YORK, N. Y.—Bids are askel by John F. Ahearn, Pres. Boro. Manhattan, until Feb. 15 for regulating and repaving with asphalt on present foundation several streets.

GENEVA, N. Y.—Bids are asked by Board Public Works until Feb. 23 for 29,600 sq. yds. of paving with brick, macadam, tar macadam, asphaltic macadam and asphalt. W. S. Wood, Secy. (Advertised, Engineering News.)

BUFFALO, N. Y.—F. G. Ward, Comr. Pub. Wks., opened bids Feb. 1 for paving four streets. The German Rock Asphalt Co., was low on all four at the following figures: Park St., $2,742; Amherst St., $6,768; William St., $2,010; Eagle St., $6,314. All bids on asphalt pavements.

CORTLAND, N. Y.—Board Public Works voted Feb. 6 to award following contracts for street work: Paving Tompkins St., Maple Ave., Clinton Ave., and Owego St., BARBER ASPHALT CO., Utica, N. Y., for total of $68,850; paving Elm St., WARNER-QUINLAN CO., Syracuse, N. Y., $36,548.

HOBOKEN, N. J.—Bids are asked by Mayor and Council until Feb. 22 for grading, curbing, etc., on Madison St. James H. Londrigan, Cy. Clk.

WILDWOOD, N. J.—Bids are asked by Jed Dubois, Boro. Clk. until Feb. 14 for constructing or relaying cement curb and sidewalks, about 125,000 sq. ft. walk and 25,000 lin. ft. curb.

HARRISBURG, PA.—It is reported that bids will soon be received by M. B. Cowden, Cy. Engr., for paving of Front and Maclay Sts. and Haehnlen Ave.

BALTIMORE, MD.—It is stated that bids will soon be invited for repaving of a large number of streets. B. T. Fendall is Cy. Engr.

AUGUSTA, GA.—Nisbet Wingfield, Cy. Engr., informs us that Jackson St. paving contract will be let some time in March.

SAVANNAH, GA.—Bids are asked until Feb. 10 for furnishing city with 100,000 hard burned sidewalk brick. Geo. M. Gadsden, Dir. Pub. Wks.

LEWISBURG, TENN.—A new turnpike is to be built from Berlin to Fountain Creek. County Auditor, City, can give information.

PADUCAH, KY.—The city has issued $250,000 street paving bonds and the work of paving streets is to be commenced at an early date. Address Board Public Works for information.

CINCINNATI, O.—Bids are asked by Board Public Service until Feb. 23 for resurfacing with asphalt, etc., Clark St.

CANTON, O.—Walnut St. will be improved this year by paving 40 ft. roadway with vitrified paving block and setting curb. Est. cost, $17,900. Chas. A. Zellar, Clk. Bd. Pub. Wks.

MANSFIELD, O.—Loren Keith, Cy. Engr., estimates that the cost of street and sewer improvements, inclusive of bridges, reservoir, etc., is approximately $127,050.

ELYRIA, O.—Bids are asked by Board Public Service until Feb. 27 for paving Washington Ave. Scott Hinman, Clk.

MARION, O.—Bids are asked by Board Public Service until Feb. 15 for laying sandstone and plank sidewalks. Wm. Fies, Clk.

CLEVELAND, O.—The Board Public Service has awarded contracts to lowest bidders in 16 street paving jobs. STANDARD PAVING CO. was awarded contract in eight instances, JOHN F. BRENNAN in three, NORTHERN OHIO PAVING & CONSTRUCTION CO. in three, and ROEHL BROS. in two. All of the streets to be paved in brick.

TOLEDO, O.—Bids are asked by Board Public Service until Feb. 15 for paving on portions of Collingwood Ave., Warren and Monroe Sts.

CELINA, O.—Bids are asked by County Auditor until Feb. 25 for ditching, grubbing, grading, graveling or macadamizing and constructing necessary bridges and culverts for the Gottfried Linn Road Improvement. The total length of the road is about 13,293 ft. M. Lutz, County Engr.

DAYTON, O.—Bids are asked until Feb. 10 by Board Public Service for paving on Curtis Ave.; approximately 3,350 sq. yds. paving and 1,760 lin. ft. straight, 120 lin. ft. circular and 109 lin. ft. protection curbing.

Bids will also be received at same date for paving a portion of East Fifth St., requiring approximately 1,850 lin. ft. straight, 109 lin. ft. circular and 250 lin. ft. protection curbing, and 3,850 sq. yds. paving. Wm. F. Miller, Clk.

PERRYSBURG, O.—Bids are asked until March 1 for $5,294 bonds to be used for grading, draining, curbing and macadamizing on Front St. T. M. Franey, Vil. Clk.

CINCINNATI, O.—Bids are asked by Board Public Service until Feb. 24 for grading, curbing and paving Marmet St. with granite and constructing necessary drains and retaining walls. Geo. F. Holmes, Clk.

MUNCIE, IND.—City Council is reported to be considering the paving of several streets with brick. Fred. Crandell is Cy. Engr.

INDIANAPOLIS, IND.—Bids will soon be asked by Board Public Works for paving 16th St. with asphalt, and for grading and graveling 11th St. B. J. T. Jeup is Cy. Engr.

GOSHEN, IND.—This city will lay five blocks of brick pavement on Fifth Ave. in the spring. J. L. Cooper is Cy. Engr.

PERU, IND.—Bids are asked by Clarkson W. Macy, County Audr., until Feb. 23 for construction of roads in Harrison Township, aggregating about 18½ miles.

FORT WAYNE, IND.—It is stated that bids will be received by Board Public Works until March 1 for 101,798 sq. yds., of asphalt and vitrified brick pavement. Cost, $200,000.

GRAND RAPIDS, MICH.—Local press reports state that the construction of proposed boulevard, between this city and Grandville, by the Grand Rapids Park and Boulevard Association will be started in the spring.

TUSCOLA, ILL.—This city has under consideration ½ mile of concrete brick paving. W. E. Price is Cy. Engr.

CHICAGO, ILL.—The Board of Local Improvement has approved 15 orders for street paving. Thirteen of the new pavements will be asphalt and the other two will be macadamized.

EAST ST. LOUIS, ILL.—The contract for paving Main St. has been awarded to McCABE & CO., 411 Olive St., St. Louis, Mo., for $4,069.

FOND DU LAC, WIS.—It is reported that Division, Sheboygan and Second Sts. will be paved. Est. cost of asphalt, $30,000, and $18,000 for macadam.

MINNEAPOLIS MINN.—More than $200,000 will be spent by the city for paving this year. Andrew Rinker is Cy. Engr.

ST. LOUIS, MO.—The following are the lowest bids for street reconstruction, received by Board Local Improvements: Green Lea Place, Parker Washington Co., of West Virginia, $12,552; Virginia Ave., Parker Washington Co., $6,892; Burd Ave., Barber Asphalt Paving Co., $19,271; Evans Ave., Parker Washington Co., $19,897; Bartner Ave., Parker Washington Co., $22,262; Wisconsin Ave., Gottlieb Eyermann, $6,130; Potomac St., Gottlieb Eyermann, $8,160; Papin St., Gottlieb Eyermann, $4,913; Conde St. Skrainka Construction Co., $10,423; Maffitt Ave., Michael Hanik, $15,122; Vermont Ave., Gottlieb Eyermann, $14,947; Farragut St., James T. McMahon, $7,171; John Ave., Skrainka Co., $16,726; Lucky St., Herman Construction Co., $11,201; Florissant Ave., Granite Bituminous Paving Co., $25,598.

SEATTLE, WASH.—Bids are asked by C. B. Bagley, Secy. Bd. Pub. Wks., until Feb. 18 for grading on Wallingford Ave. and other streets. Est. cost, $51,500. R. H. Thomson, Cy. Engr.

SACRAMENTO, CAL.—Bids are asked by M. J. Desmond, Cy. Clk., until Feb. 13, 8 p. m., for resurfacing L St., with macadam.

WINNIPEG, MAN.—Bids are asked until Feb. 21 for from 1,000 to 1,500 tons of asphalt for street paving. C. J. Brown, Cy. Clk.; H. N. Ruttan, Cy. Engr.

ST. BONIFACE, MAN.—It is stated that bids will soon be called for for paving several streets with asphalt this year. Theodore Bertrand, Clk.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—The Farr Alpaca Co. plans the erection of a large addition to its plant.

SALEM, MASS.—Dennis Brady, whose shoe factory was recently destroyed by fire at a loss of $25,000, will rebuild.

WORCESTER, MASS.—A building will be erected on Austin St. by the Hovey Laundry Co., 2 Fruit St.

WORCESTER, MASS.—Lockwood, Greene & Co., 93 Federal St., Boston, have plans for two factory buildings for Merrifield heirs, Worcester.

NEW BRITAIN, CONN.—The Hart & Cooley Mfg. Co., manufacturers of pressed steel registers, has applied to Legislature for authority to increase its capital stock from $100,000 to $250,000. The company desires to build an additional factory.

WINSTED, CONN.—Benedict & Walsh, Archs., 7 Leavenworth St., Waterbury, Conn., have prepared plans for a four-story factory and office building, 35 × 1[illegible] ft., for Winsted Hosiery Co.

NEW HAVEN, CONN.—A. B. Clinton Co. has been incorporated with a capital of $40,000 to manufacture pianos. Incorporators: A. B. & H. W. Clinton and F. S. Stiles, North Haven.

NEW BRITAIN, CONN.—The Cremo Brewing Co. has been incorporated, with a capital of $100,000. L. M. Barnes and Otto Leopold, New London, are among the incorporators.

ALBANY, N. Y.—State Engineer Van Alstyne has rendered a report to Senate in favor of establishing a stone crushing plant for Sing Sing prison. Estimates of costs are as follows: Docks, trestles, etc., $40,000; site, $50,000; plant, $40,000; contingent expenses, $20,000.

SHARON, PA.—The American Sheet & Tin Plate Co. has prepared plans for enlarging tin plate mill at South Sharon. Cost, $500,000.

BETHLEHEM, PA.—Press reports state that $3,000,000 is to be expended by Bethlehem Steel Co. in improving and enlarging the plant here this year. Eli. M. McIlvaine is Pres., Philadelphia.

BALTIMORE, MD.—The Kunkel Wagon Co. has been incorporated with $25,000 cap. stock, for manufacturing wagons, by John N. Kunkel, 37 East Lee St., and others.

BALTIMORE, MD.—Wm. H. Schulze, 15 North Sharp St., has awarded contract to CHAS. A. SIELING, builder, 342 North Calvert St., for construction of box factory, to be located at Ridgely and Bush Sts., after plans and specifications by J. S. Plummer, 2003 Lanvale St. Brick, two stories, 60 × 97 ft. Cost, $6,000.

BLACKSTONE, VA.—The Blackstone Mfg. Co. will erect an ice factory here. Machinery purchased.

STATESVILLE, N. C.—The Altha Chair Factory will put in new machinery and increase capacity of plant.

HICKORY, N. C.—The Hickory Ice & Cold Storage Co., capital $15,000, has been organized here to erect a 20-ton ice plant. The officers are: A. B. Schwartz, of Louisville, Ky., is Pres. E. Lyerly will be business manager and have full charge of plant.

BEAUFORT, S. C.—J. Weinberg, of Ridgeland, will erect a cigar factory here.

BENNETTSVILLE, S. C.—The Southern Cotton Oil Co.'s plant was destroyed by fire. Loss, $100,000.

SAVANNAH, GA.—The Shean Cornice Works will establish a plant here, to begin operation at an early date. T. P. Shean is Mgr.

SAVANNAH, GA.—Youmans & Price, of Waycross, will remove their cigar factory to this place and largely increase its capacity.

PELHAM, GA.—The Crescent Variety Works, recently organized here, will erect a plant at once.

BLAKELY, GA.—A company has been organized with O. M. McLaurin, Pres., to erect an ice factory here.

JACKSONVILLE, FLA.—The "Pink Sheet Daily Bulletin" states that the Florida Ice Mfg. Co. will build an addition to its plant.

MONTGOMERY, ALA.—The National Colonial Co. will erect a grain mill and grain elevator here, at a cost of $35,000.

CITRONELLE, ALA.—The Alabama Industrial Co., C. B. Sims, Pres., will build and operate a canning factory.

CLARKSVILLE, TENN.—The Clarksville Button Works will increase their capital to $20,000 and will install a finishing plant.

GADSDEN, ALA.—The Alabama Steel & Wire Co. announces that it will at once add another furnace to its steel mill at Gadsden, increasing the daily output to 400 tons.

MONTGOMERY, ALA.—The National Cotton Oil Co. will erect a $35,000 grist mill. It will have a grinding capacity of 3,000 bushels a day and an elevator that will hold 15,000 bushels.

BIRMINGHAM, ALA.—The Republic Iron & Steel Co. contemplates erecting a steel plant in this district.

BIG BLACK, MISS.—J. B. Kerr will erect a plant here for the manufacture of wagon stock, lumber, etc.

GREENWOOD, MISS.—W. O. Bacon will erect a brick and tile factory here, at a cost of $25,000.

AMITE, LA.—The Gullett Gin Co. will erect a new saw and planing mill.

AMITE, LA.—W. A. Graves will erect a saw and planing mill here. Capital, $10,000.

ARCADIA, LA.—The Arcadia Light, Lumber & Gin Co. will erect a brick plant of 20,000 daily capacity, to run in connection with its present works. Machinery purchased.

MEMPHIS, TENN.—The Pelican Biscuit Co. has purchased a site for its plant and will begin work of construction at once. Brick, three stories, 60 × 150 ft. Machinery purchased.

HALLS, TENN.—The Halls Box Co., recently organized with a capital of $12,000, has purchased land for factory site and work on new plant will begin in a short time. W. F. Wilson is Pres.

SHELBYVILLE, TENN.—A number of local capitalists propose to erect a tobacco factory here. The Mayor can probably inform.

MEMPHIS, TENN.—Local press reports state that the plant of the Valley Oil Mills, recently destroyed by fire at a loss of $100,000, will be rebuilt. Lawson Falls is Pres.

CHATTANOOGA, TENN.—It is reported that ground will be broken for a new $50,000 foundry by Chattanooga Implement & Mfg. Co. as soon as weather permits.

BOWLING GREEN, KY.—A large packing plant will be erected here by T. J. Mitchell.

CINCINNATI, O.—Garber & Woodward, Archs., Neave Bldg., are ready for bids on a factory building for Cincinnati Iron Store Co. Brick, one story, 110 × 115 ft., with wing 122 × 56 ft.

COLUMBUS, O.—It is reported that bids will soon be received by Richards, McCarty & Bulford, Archs., Ruggery Bldg., for a factory building for the McLilly Uniform Mfg. Co. Brick, five stories, 25 × 125 ft.

COLUMBUS, O.—J. A. Jones, Arch., 23 Dispatch Bldg., has prepared plans and is ready for figures for factory building for Darly Canning Co. Cost, $40,000.

HAMILTON, O.—Geo. Barkman, Arch., 230 High St., has plans for a one-story addition, 60 × 178 ft., to foundry for Mullinger & Jacobs.

SPRINGFIELD, O.—The announcement is made that the name of Citizens' Lighting, Heating & Power Co. would be changed to the People's Co., and that the capital stock be increased from $10,000 to $1,500,000. The company will improve and equip a plant to cost $500,000. The company will be backed by the Missouri Trust Co., of St. Louis.

EVANSVILLE, IND.—Iglehart Bros. have plans and will let contract within 30 days for a four-story flour mill. Cost, $30,000.

INDIANAPOLIS, IND.—The Big Four R. R. Co.'s officials announce that additional repair shops will be erected at Brightwood this summer, at a cost of $500,000.

GOSHEN, IND.—The I. X. L. & Goshen Pump Co. will build an addition to its plant. J. A. Arthur is Secy.

SOUTH BEND, IND.—The Beall Nonpounding Frog & Crossing Co., J. W. Fitzgibbons, Secy., contemplates the erection of a one-story machine shop, 80 × 150 ft., and a one-story foundry, 75 × 50 ft.

MICHIGAN CITY, IND.—A site has been secured and plans are well under way for the erection of a plant for the manufacture of sand-lime brick in this city by the United States Brick Co.

RICHMOND, IND.—Anarlott & Dozier, Archs., are preparing plans for a 500-barrel flour mill for Barrett, Denton & Lynn Flour Co., at Dalton, Ga. Est. cost, $20,000.

CHICAGO, ILL.—The Armstrong Bros.' Tool Co. will construct a plant here, costing $75,000, for the manufacture of tools.

LA CROSSE, WIS.—The Segelke & Kohlhaus Mfg. Co. has decided to make extensive improvements in its factory.

WILBER, NEB.—Zwonechek & Aksamit will rebuild their flour mill, recently destroyed by fire.

HELENA, MONT.—C. T. Perry & Co. are figuring on rebuilding their soap and candy factory, recently destroyed by fire.

ST. LOUIS, MO.—J. L. Ennis will erect a large factory building here. The MURCH BROS. CONSTRUCTION CO. have the contract.

KANSAS CITY, MO.—Rudolph Osterle, Ch. Engr., Nelson Morris & Co., has made plans for a brick car repair shop for the firm.

ST. LOUIS, MO.—Plans have been drawn for improvements to Anheuser-Busch Brewing Association's plant in South St. Louis aggregating $1,195,000 in value. The improvements consist of a seven-story stock house to cost $900,000, a stable to cost $150,000, a hop and rice warehouse to cost $70,000 and a boiler plant to cost $70,000. The plans for the buildings were drawn by Widmann, Walsh & Boiselier and the buildings are to be fireproof. The hop house will be seven stories high and contain large steel tanks, of 11,000 barrels capacity each, for storing beer. The boiler plant will be stored with five 650 HP. Heine boilers. The smokestack to the boiler house will be 250 ft. high.

ALTUS, ARK.—Preston Ballentine will erect a planing mill here.

FAYETTEVILLE, ARK.—B. H. Smith and J. Cass, of Springfield, will erect a steam laundry here.

LITTLE ROCK, ARK.—The Little Rock Furniture Mfg. Co. has decided to rebuild its plant, which was burned some time ago.

HOUSTON, TEX.—The contract for construction of factory of the Otis Elevator Co. has been let to CHAS. H. STADTLER, of Houston.

HOUSTON, TEX.—The Houston White Brick Co. will erect a factory building, at a cost of $5,000.

MARSHALL, TEX.—It is stated that the Texas & Pacific R. R. Co. contemplates some extensive improvements to their shop at this point. Cost, $25,000.

DENVER, COLO.—John S. Flower, 705 17th St., is considering plans for the erection of a two-story laundry building. Cost, $15,000.

PAUL'S VALLEY, IND. T.—The Paul's Valley Compress Co., H. H. Pennington, Mgr., will erect a cotton compress here. Work to begin at once.

VANCOUVER, B. C.—Plans are being prepared by Vancouver Lumber Co. for a large increase in its present plant. J. D. Moody, Mgr., states that work will be proceeded with immediately. It is likely that $150,000 or more will be spent.

TORONTO, ONT.—The American Chicle Co. propose to build a $30,000 chewing gum factory and chicle storehouse.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DREDGING.—Council Bluffs, Ia.—S. L. Etnyre, Cy. Engr., has estimated cost of dredging Indian Creek from Eighth St. to 16th Ave., at $24,000.

OIL TANKS.—Seattle, Wash.—Union Oil Co., San Francisco, Cal., is to build several oil tanks and storehouses at this place at a cost of over $100,000.

TUNNEL.—American Fork, Utah.—Bids received Jan. 18 by City Council for construction of 660-ft. tunnel were considered too high and no action was taken.

ROCK DRILLS.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until Feb. 28 for furnishing rock drills. (Advertised, Engineering News.)

REMODELING BOAT.—Milwaukee, Wis.—Bids are asked until Feb. 21 by Board Public Works for remodeling fire boat "Cataract," at est. cost of $50,000.

STEAMBOAT.—New York, N. Y.—Bids are asked by Board of Health, Dr. Thomas Darlington, Pres., until Mar. 1 for constructing steel, twin screw propeller steamboat.

ISLAND.—Ellis Island, N. Y.—Bids are asked by Commissioner of Immigration, until Mar. 1 for construction of an island near Ellis Island. (Advertised, Engineering News.)

DRAINAGE CANAL.—Albert Lea, Minn.—County Commissioners have been petitioned to construct the Moscow-Riceland drainage ditch, est. cost of doing which is set at $150,000.

DREDGING.—Port Chalmette, La.—CAPT. CHARLES CLARK, Galveston, Tex., is stated to have secured $100,000 sub-contract from James Stewart & Co. for dredging at this place.

HOSE WAGON, HOSE.—St. Paul, Minn.—Bids are asked by Board Fire Commissioners until Feb 15 for hose wagon and for 2,500 ft. 2½-in. rubber steam fire hose with complete fittings.

WRECK REMOVAL.—Boston, Mass.—Bids are asked until Mar. 6 for removal of two canal boats in Lake Champlain. Col. W. S. Stanton, U. S. Engrs. (Advertised, Engineering News.)

READERS' WANTS

If any one is in the market for any engineering or contracting supplies, the first thing to do is to refer to our advertising pages, but if the buyer cannot find what he wants we particularly ask that he notify us at once and we shall inform the proper parties without cost to the inquirer. A copy of **ENGINEERING NEWS BUYERS' GUIDE** will be mailed to any one upon application. This paper shall always appreciate any news notes regarding public, or important private work, and will be pleased to receive detailed items. Requests to hold names will be complied with in every case. **Do not fail to write our advertisers or us.**

ICE MACHINES.—Lenoir, N. C.—O. P. Lutz is in the market for ice machines.

BRICK MACHINERY.—Lake City, S. C.—T. T. Milburn is reported as wanting catalogues.

ELECTRICAL EQUIPMENT.—Camden, Tenn.—L. A. Wyatt, Supt., is in the market for the above.

CRANE.—Birmingham, Ala.—The Eureka Stone Works, 34th St., is in the market for a small valveless crane.

SHAFTING.—Oak Forest, N. C.—J. R. Abernathy & Son are in the market for shafting, etc., for a flour mill.

100-HP. BOILER.—St. Louis, Mo.—The Carthage Superior Limestone Co., 24 No. 4th St., is in the market for the above.

PUMPS.—Turkey.—Const. N. Chaniostis & Co., of Smyrna, is in the market for pumps, with detachable valve seats.

CAST-IRON PIPE.—Wilmington, Del.—H. S. Aurand, 113 E. 4th St., writes us that he wants the prices of cast-iron piping.

RADIATORS, PIPING, ETC.—Ellsworth, Me.—E. C. Osgood writes us that he wants to buy a hot water heating system, etc.

ENGINE AND BOILER.—Gum Neck, N. C.—F. F. Owens, Box 47, is in the market for a 10-HP. engine and 12-HP. boiler.

ELECTRICAL SUPPLIES.—Kansas City, Mo.—The Pague Mfg. Co., 29th St., is in the market for supplies for a 50-light plant.

ENGINE AND BOILER.—Havre de Grace, Md.—F. Schnitzlein is in the market for a 12-HP. engine and a 40-HP. boiler.

ROLLER SKATES.—Roanoke, Va.—R. W. Shelmire, c/o Ch. Engr. N. & W. Ry., writes us that he wants names of manufacturers.

HORSE NAIL MACHINES.—Shreve, O.—P. S. Craig writes us that he wants the names of firms who make horse nail machinery.

MACHINE TOOLS.—Clarksdale, Miss.—The Clarksdale Machinery, Supply & Mfg. Co. is in the market for machine tools for a shop.

HOSE WAGON, CHEMICAL ENGINE, RUBBER HOSE, ETC.—Lexington, Ky.—Thos. A. Combs, Mayor, is in the market for the above.

VALVES, AIR PUMPS, MACHINE TOOLS, ETC.—Holland.—C. J. Jung & Co., of Amsterdam, writes us that they want the addresses of the manufacturers of the above.

ELECTRIC SUPPLIES.—Egypt.—The Alexandria Tramway Co., Alexandria, is reported as in the market for electrical supplies for the proposed plant.

ICE-MAKING MACHINES.—Tracy City, Tenn.—A. I. Totten writes us that he wants the names of manufacturers of small ice-making machinery.

SANITARY SUPPLIES.—Peru, S. Am.—Dr. Castro Gutierez, Medico Sanitario, of Callao, wishes to correspond with firms making sanitary supplies, closets, etc.

CEMENT BLOCK MACHINE.—Clearfield, Pa.—Geo. I. Thompson, contractor, writes us that he is in the market for a machine for making concrete building blocks.

BRICK, CONCRETE, PLASTER, ETC.—New York, N. Y.—F. M. Gaiger, Cedar Ave. and 170th St., writes us that he wants the cost of brickwork, concrete work, plaster work, etc.

BUILDING SUPPLIES.—Baltimore, Md.—Chas. Gilpin, contractor, Union Trust Bldg., wants estimates for brick stone, reinforced concrete work, structural material, heating, plumbing, etc.

IRON WORKING AND LUMBER EQUIPMENT.—Waynesville, N. C.—It is reported that Clark & Co. are in the market for planers, pumps, boring machines, lathes, etc., for working in wood and metal.

RAILWAY INVESTORS.—Dominican Republic, W. I.—Guillermo Neuhaus, of Sanchez, D. R., wants the names of investors who will put money into a railway scheme, which includes the sale of the present railway.

BRICK MAKING MACHINERY.—Lake City, S. C.—F. P. Milburn, Arch., Columbia, S. C., writes us that T. T. Milburn will erect brick works, and wishes catalogues from manufacturers of all kinds of machinery, equipment, etc., connected with the manufacture of brick.

GLASS ILLUMINATING LIGHTS.—San Francisco, Cal.—Dyer Bros., of the Golden West Iron Works, Inc., structural contractors, writes us that they want the names of manufacturers of glass illuminating lights, such as are used on sidewalks to let light into basements, etc.

HOT WATER HEATING, DEEP WELL PUMP, ELEVATOR TANK, WIND MILL, BATHROOM FIXTURES, TILING, CEMENT (50 tons), ETC.—Liberty, Ind.—C. S. McMahan writes us that he is the market for above in connection with the proposed residence he intends to build.

FOUNDRY APPLIANCES.—Boston, Mass.—Andrew J. Morse & Son, 140 Congress St., writes us that they want the addresses of firms making foundry appliances, such as ovens, furnaces, blowers, etc., same to be of the ordinary pattern and also those to be worked by gasoline or kerosene, if there are such.

SWITCHBOARDS.—Washington, D. C.—Contract for 50 switchboards for Army signal office is reported to have been let to LAMBERT-SCHMIDT TELEPHONE CO., Hoboken, N. J., for $6,380.

TRAVELING CRANE.—Milwaukee, Wis.—Board Public Works has let contract for traveling crane for new engine room at North Point pumping station to PAWLING & HARNISCHFEGER for $4,250.

SWITCHBOARD.—Washington, D. C.—Bureau Yards and Docks has awarded contract for direct current switchboard for Washington Navy Yard (bids received Jan. 21) to A. & J. M. ANDERSON CO., 289 A St., Boston, Mass., for $13,530.

GRADING, ETC.—Memphis, Tenn.—Bids are asked by Eugene Wasdin, Custodian U. S. Marine Hospital, until Feb. 23 for grading, piling, fencing and sodding north terrace of this reservation, including underpinning for piers of east ward building.

TIMBER.—Washington, D. C.—Isthmian Canal Commission has awarded contract for furnishing yellow pine and Douglas fir timber, classes A and B, bids for which were opened Dec. 17, to J. J. MOORE & CO., San Francisco, Cal., for $631,811.

DRAINAGE SYSTEM.—Minneapolis, Minn.—Bill has been before legislature to set aside $25,000 for a drainage survey of Northern Minnesota. It is estimated that there are about 2,000,000 acres of land in that section of the state that could be reclaimed.

OIL PIPE LINE.—Beaumont, Tex.—D. M. MONTGOMERY, representing LA BELLE WORKS, Steubenville, O., is reported to have secured contract for 54-mile long oil pipe line, to be laid from Jennings, La., to the Atchafalaya River. Cost will be about $300,000.

CEMENT.—San Francisco, Cal.—Bids are asked until Mar. 3 for furnishing and delivering cement for building portion of dam known as Barrier No. 1, Yuba River, Cal. Capt. Wm. W. Harts, U. S. Engrs., Secy., California Debris Comn. (Advertised, Engineering News.)

STONE.—Portland, Ore.—Following bids were received by Maj. W. C. Langfitt, U. S. Engrs., for furnishing 400,000 tons of stone for extension of jetty at mouth of Columbia River: Columbia Contract Co., Portland, Ore., $440,000; J. W. Sweeney, 150 N. 15th St., Portland, Ore., $368,000.

PILES.—Washington, D. C.—Isthmian Canal Commission has awarded contract for untreated Douglas fir piles (bids opened Jan. 24) to AMERICAN MERCANTILE CO., Tacoma, Wash., for $20,000. Contract for creosoted piles was let to WEST PASCAGOULA CREOSOTING WORKS, West Pascagoula, Miss.

IMPROVEMENTS TO SHEARS.—Washington, D. C.—Following bids were received Feb. 4 by Bureau Yards and Docks, for improvements to 100-ton shears at navy yard, League Island, Pa.: The Snare & Triest Co., 39 Cortlandt St., New York, $15,900; The Scofield Co., Pennsylvania Bldg., Philadelphia, Pa., $20,070; R. G. Packard Co., 139 Pearl St., New York, $15,744.

LATRINE.—Charleston, S. C.—Following bids were received Feb. 4 by Bureau Yards and Docks, Washington, D. C., for constructing latrine for C. & R. building No. 27, Charleston Navy Yard: Molee DeLeon, English-American Bldg., Atlanta, Ga., $11,000, $11,200 and $10,480; Simons-Mayrant Company, 16 Broad St., Charleston, S. C., $10,469, $10,819; Clark Construction Co., 4 Sherman St., Chicago, Ill., $11,600, $11,740.

DREDGING.—Savannah, Ga.—Bids were recieved Feb. 3 at U. S. Engineers Office in this city for about 85,000 cu. yds. dredging in Darien Harbor and 110,000 cu. yds. dredging in Daboy Harbor. For the latter work the lowest bid, that of Rittenhouse Moore, Mobile, Ala., was 35 cts. per cu. yd., and all bids were considered excessive and recommended for rejection. The work will probably be done by U. S. seagoing dredge. For Darien Harbor work, bid of P. Sanford Ross, Inc., Jersey City, N. J., at $10,072, was recommended for acceptance.

PIERS.—New York, N. Y.—Bids were opened Feb. 1 by the Dock Commissioner for construction of new piers at East 108th St. and E. 102d St., contracts being let to BERNARD ROLF, 39 Cortlandt St., New York, at $17,433 for E. 102d St. pier, and to NEW YORK STATE CONSTRUCTION CO., 78 Broad St., New York, at $21,193 for E. 108th St. pier. Bids were also opened Feb. 2 for construction work on piers at 109th St., and E. 37th St., contracts being let to NEW YORK STATE CONSTRUCTION CO., at $20,911 and $16,519. Contract for E. 37th St. pier includes also 8,160 cu. yds. riprap which was let to above firm at 45 cts. per cu. yd.

BUOYS, APPENDAGES, ETC.—Washington, D. C.—Bids were opened Nov. 1 by Inspector of Third Light House District for furnishing buoys, buoy appendages and mooring chains for use of light-house establishment during fiscal year ending June 30, 1905; the following bids were accepted: Bell buoys, UNION BOILER & MFG. CO., Lebanon, Pa., $6,900; whistling buoys, FRANKLIN MACHINE & STEAM BOILER WORKS, $5,860; gas buoys, SAFETY CAR HEATING & LIGHTING CO., New York, $33,900; can and nun buoys, FRANKLIN MACHINE & STEAM BOILER WORKS, $12,298; wood spar buoys, WM. A. WEST, Portsmouth, Va., $4,100; Winter channel buoys, ENTERPRISE BOILER CO., Youngstown, O., $9,375; ballast balls, M. H. TREADWELL & CO., Lebanon, Pa., $2,179; chain for buoys, LEBANON CHAIN WORKS, three contracts, $13,039, $20,375 and $37,375; mushroom anchors, BETHLEHEM FOUNDRY & MACHINE CO., $1,972; iron sinkers, WEATHERLY FOUNDRY & MACHINE CO., Weatherly, Pa., $9,462; Swivels, NEW JERSEY FOUNDRY & MACHINE CO., $1,385, and M. H. TREADWELL & CO., $2,100; shackles, FLETCHER & CROWELL CO., Portland, Me., two contracts, $1,670 and $3,480. In addition to above, bids were opened Jan. 12 for furnishing mushroom anchors, bid of M. H. TREADWELL & CO., of $1,965 being accepted.

DITCHING.—Litchfield, Minn.—Six ditching jobs are to be sold at Litchfield Feb. 28. Arthur E. Morgan, Engr., St. Cloud, Minn., sends us the following information concerning the work: "Ditch No. 18 is about 4 miles long. The cut for the first two miles is shallow, averaging about 3 ft.; bottom width, 3 ft. This part is easy digging. The lower 2 miles will have an average cut of 6 ft.; bottom width, 4 ft.; slope, 1 to 1. An excellent chance for a floating dredge going down stream or for a dredge on a track moving up stream. Soil, gravelly clay. Surface is very even with few hills or hollows. Total excavation, 50,000 cu. yds. Estimated cost, upper two miles, 10 cts.; lower two miles, 12½ cts. Limits under the law, 13 cts., and 16 cts., respectively. Ditch No. 20 is in a peculiarly favorable situation for work with a steam dredge. There is one heavy cut a quarter of a mile long from which 40,000 cu. yds. are to be excavated at an estimated cost of 15 cts. per yd. Bottom width, 10 ft.; slope, 1 to 1; greatest depth of cut, 28½ ft. The peculiarity of this piece of work is that there is a big gully at the lower end of the cut which may be used as a dump. By laying a track in the cut, cars could be loaded in the cut and moved out and emptied by gravity. There are about 4 miles of shallow ditching to be done on this job where the average depth is 4 ft.; bottom width, 4 ft. Estimated cost, 15 cts. per cu. yd. Ditch No. 21 calls for about 120,000 cu. yds. of excavation. The estimated price is 15 cts. This ditch is made up of about five miles of main and six miles of branches. Five miles would have an average depth of 5 ft.; bottom width, 6 ft.; soil, gravelly

clay. Working down stream, this would be an excellent proposition for a floating dredge. Working up stream, a dredge could move on a track. Ditch No. 22 is a heavy cut, 4 ft. to 8 ft. deep for two miles." In addition, Mr. Morgan writes that there has been such a large amount of dredging undertaken in Meeker County this year that all the local contractors now have their hands full. The drainage commission cannot furnish profiles, etc., to inquirers without cost, and they would advise a personal inspection of the ground, as the propositions are good ones. It would be well to have dredging machine men and small contractors, working by hand and team, bid on the same job, so that one could take the main cuts and the other the shallow branches.

DAM AND BRIDGES.—Phoenix, Ariz.—Bids are asked by the U. S. Reclamation Service until Feb. 23, instead of Feb. 8, for the construction of a masonry dam and two bridges on Salt River, about 70 miles east of this place. The dam will contain about 300,000 cu. yds. of masonry. E. A. Hitchcock, Secy. Dept. of the Interior, Washington, D. C. (Advertised, Engineering News.)

BARGE CANAL.—Albany, N. Y.—Contracts for building two sections of the barge canal were awarded Feb. 7 to LINDON W. BATES, 74 Broadway, New York. First contract is for work on the Champlain Canal and contract price was $605,008. The second contract, which was for work on Erie Canal, was let at $726,815. Proposals for this work were opened Dec. 15, 16 and 17, and the itemized bids were given under Contract Prices in our issue of Dec. 22, 1904.

COAL HANDLING MACHINERY, ETC.—Philadelphia, Pa.—Bids were received Feb. 2 by Bureau of Filtration, John W. Hill, Ch. Engr., for coal handling machinery and pockets for Lardner's Point Pumping Stations Nos. 2 and 3. Bids were received on (1) coal handling machinery, cable railway, steel bents, bridge, permanent way, hoisting machinery, towers, brooms, shovels, etc.; on (2) which includes same materials as (1) save that bents are of timber instead of steel; (3) 5,000-ton coal storage pockets of steel reinforced concrete; (4) coal storage pockets of structural steel; (5) coal pockets of timber lined with steel; (6 railway track, switches, scale, etc., from pockets to boiler house; (7) railway track in boiler house; (8) one-ton double-side dump charging cars; (9) wharf. The bids received were as follows: Millard & McGraw Construction Co., 1010 Arcade Bldg., Philadelphia; time limit, 10 months: (1) $47,500; (2) $43,500; (3) $60,000; (4) $60,000; (5) $55,000; (6) $4,000; (7) $1,000; (8) $150 (9) $9,000. Henderson & Co., Ltd., 1212 Arch St., Philadelphia; time limit 240 working days; (1) Plan A, $35,000, B, $37,000, C, $40,000, D, $44,000, Hunt, $54,000; (2) Plan A, $32,200, B, $34,200, C, $37,200, D, $41,200, Hunt, $51,200; (3) Plan L, $64,000, K, $59,000; (4) Plan M, $64,307, G, $62,700; (5) $37,700; (6) Kopple, $3,800, Exeter, $4,300, Hunt, $7,000; (7) Kopple, $500, Exeter, $510, Hunt, $1,028; (8) Kopple, $130, Exeter, $132, Hunt, $185; (9) $9,987. The Snare & Triest Co., 39 Cortlandt St., New York; time limit, nine months; (1) $39,980; (2) $34,400; (3) $58,600; (4) $60,980; (5) $52,300; (6) $8,300; (7) $1,200; (8) $140; (9) $8,200. David Peoples, 1000 Beitz Bldg., Philadelphia; time limit, eight months; (1) Plan A, $45,700, B, $47,700; (2) Plan A, $42,000, B, $45,200; (3) $75,000; (4) $65,000; (5) $42,000; (6) $5,000; (7) $650; (8) $100; (9) $7,500. Edw. F. Fonder, 1116 Land Title Bldg., Philadelphia; time limit, 18 months; (1) Plan A, $48,170, B, $50,170; (2) Plan A, $46,170, B, $48,170; (3) $66,000; (4) Plan A, $87,906, B, $89,906; (5) $54,266; (6) $8,005; (7) $967; (8) $150; (9) $6,882. The Schofield Co., 906 Pennsylvania Bldg., Philadelphia; time limit, 10 months; (1) $89,000; (2) $87,000; (3) $78,000; (4) $76,500; (5) $72,000; (6) $11,400; (7) $1,190; (8) $170; (9) $14,000.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

ASPHALT PAVING.—New York, N. Y.—Following bids were received Jan. 24 by the President of Bronx Borough for paving with asphalt blocks on a concrete foundation the roadway of Crotona Ave., from Croton Park to East 187th St., and setting curb where necessary: (1) Hastings Pavement Co., 25 Broad St.; (2) Warner Asphalt Co., 32 Broadway; (3) Harlem Contracting Co., 41 Wall St.; (4) Asphalt Construction Co., 207 Broadway; (5) Barber Asphalt Paving Co., 114 Liberty St., New York City): bidders of

Bids received at New York, N. Y., January 24, 1905, by the President of Bronx Borough, for Paving Blocks on a Concrete Foundation the Roadway of Crotona Ave., from Crotona Park to E. 187th St., and Setting Curb Where Necessary.

Items.	Quantity.	(1)	(2)	(3)	(4)	(5)
Completed asphalt block pavement, and keep same in repair for five years from date of acceptance	23,250 sq. yds.	$1.45	$1.50	$1.50	[illegible]	$1.84
Concrete, including mortar bed	3,600 cu. yds.	5.20	5.28	5.60	[illegible]	3.94
New curbstone, furnish and set in concrete	1,500 lin. ft.	.60	.90	.90	[illegible]	.44
Old curbstone, rejointed, recut on top and reset in concrete	8,350 lin. ft.	.25	.33	.27	[illegible]	.26
Totals		$55,420	$57,988	$58,639	[illegible]	$55,145

*SEWERS.—Coldwater, Mich.—Bids were received by Board Public Works Jan. 26 for completion of trunk sewers in this city. The material to be excavated is loose gravel and sand, with no quicksand, and on about one-half the trenching ground water from 2 ft. to 4 ft. above grade will be encountered. Work requires no trenching in rock, nor any repaving; the price bid per lineal foot includes excavation. Charles G. Moore, City Engr. Bids received were as follows: (1) Stitt & Kunsman, Wabash, Ind.; (2) National Construction Co., South Bend, Ind.; (3) Northern Construction Co., Elkhart, Ind.; (4) Shannon & Callahan, Joliet, Ill.; (5) J. H. Green & Son, Appleton, Wis.; (6) H. F. Liphardt, 720 14th Ave., Detroit, Mich.; (7) Engineer's estimate:

Bids received at Coldwater, Mich., January 26, 1905, by Board of Public Works, for Completion of Trunk Sewers.

Items.	Quantity.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Earth embankment		....	.27	.40	.75	.75	.60	....
Concrete		....	7.50	6.00	15.00	8.50	6.00	....
Manholes	20	37.00	55.00	75.00	55.00	45.00	45.00	44.00
24-in. pipe sewer on embankment	330 lin. ft.	1.43	1.80	2.50	1.50	1.75	3.30	1.54
18-in. pipe sewer, 14.5 ft. deep	2,713 lin. ft.	4.10	3.50	3.50	4.05	3.52	3.30	1.92½
15-in. pipe sewer, 19.5 ft. deep	2,940 lin. ft.	3.28	3.00	4.25	3.75	3.45	3.30	2.97
12-in. pipe sewer, 17.8 ft. deep	3,040 lin. ft.	2.57	2.30	2.50	3.25	3.05	3.30	2.47½
10-in. pipe sewer, 14.9 ft. deep	1,000 lin. ft.	1.78	1.55	1.75	2.56	1.98	3.30	1.92½
Totals		$31,619	$28,662	$33,801	$36,170	$32,546	$34,151	$24,893

REGULATING, GRADING, ETC.—New York, N. Y.—Following bids were received Jan. 24 for regulating and grading, setting curbstones, flagging, laying crosswalks, building approaches and placing fences in Bryant Ave., from Boston Road to East 182d St.: (1) Thos. Grogan, West Farms, N. Y.; (2) Bellew & Merritt Co., Tuckahoe, N. Y.; (3) Jos. Gallo, 127 Mulberry St., New York; (4) P. J. Duffy, East 132d St. and St. Ann's Ave., New York; (5) Vermilye-Garry Construction Co., East 173d St., New York; (6) Geo. I. Bailey, 168th St. and Fulton Ave., New York; (7) D. W. Moran, 563 Burnside Ave., New York; (8) W. T. Murray, 1155 Boston Road; (9) C. Goodman, New York:

Bids received at New York, N. Y., January 24, 1905, for Regulating and Grading, Setting Curbstones, Flagging, Laying Crosswalks, Building Approaches and Placing Fences in Bryant Ave., from Boston Road to E. 182d St., New York.

Items.	Quantity.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Earth excavation	1,800 cu. yds.	.01	.35	.30	.45	.40	.64	.40	.99	.30
Rock excavation	11,900 cu. yds.	1.70	1.60	1.58	1.98	2.00	1.67	1.75	1.95	1.50
Filling	10,400 cu. yds.	.30	.02	.10	.01	.00¾	....	.20	.35	.30
New curbstone, furnish and set	3,550 lin. ft.	.85	.87	.70	.74	.80	.70	.73	.99	.80
New flagging, furnish and laid	15,000 sq. ft.	.23	.27	.23	.24	.24	.20	.24	.20	.27
Dry rubble masonry, in retaining walls, culverts and gutters	650 cu. yds.	1.05	2.00	2.00	1.98	2.00	2.00	.80	1.90	2.00
Totals		$31,350	$28,316	$27,617	$31,990	$32,812	$27,810	$30,336	$36,376	$29,700

SANITARY SEWERS.

Coldwater, Mich.

Sealed proposals will be received by the Board of Public Works of the City of Coldwater, Mich., until 4 o'clock p. m. on the 21st day of February, 1905, for the construction of sanitary sewers, having a total length of 10,076 lin. ft., ranging in size from 10 in to 24 in., together with necessary manholes.

Plans, profiles and specifications may be seen, and blank forms of proposals may be obtained, at the office of the City Clerk.

Each proposal must be accompanied by a certified check for Five Hundred ($500) Dollars, made payable to the Treasurer of the City of Coldwater, Mich., as a guarantee that if proposal is accepted, contract will be entered into.

The right is reserved to reject any or all bids.

By order of the Board of Public Works.

P. H. SWEENEY, Pres.

W. H. KING, City Clerk. 6-1

BERMUDEZ ASPHALT-WARNING.

TO MUNICIPAL AUTHORITIES, CONTRACTORS, AND ALL PERSONS USING OR CONTEMPLATING THE USE OF BERMUDEZ ASPHALT:

NOTICE is hereby given to municipal authorities, contractors, and all persons using or contemplating the use of Bermudez asphalt, that the New York & Bermudez Company, owner of Bermudez Lake, in the State of Bermudez, United States of Venezuela from which said Company was wrongfully dispossessed on the 22d of July, 1904, will hold liable in damages all persons whomsoever who, during such period as the Bermudez Lake shall continue in the wrongful possession of others, shall receive, use, purchase, sell or dispose of or be directly or indirectly concerned in the receipt, use, purchase, sale or disposition of any asphalt taken from said Bermudez Lake by persons other than the Company's duly authorized agents and employees. All persons concerned or in any way implicated as parties or accessories in said unlawful seizure, or any subsequent unauthorized traffic in the product of the Company's property will be held to strict legal accountability. NEW YORK & BERMUDEZ COMPANY, by CLYDE BROWN, Secretary. Land Title Building, Philadelphia, Pa., December, 1904. 26-3t oam

SAND FILTRATION SYSTEM.

Pittsburgh, Pa.

Sealed bids or proposals for the construction of the necessary works in connection with the proposed sand filtration system and all appurtenances thereto, to be built in O'Hara Township and in the City of Pittsburgh, Allegheny County, Pennsylvania, and endorsed "Proposals for "(*Title of Contract*). Contract No. ———, Bureau of Filtration, Department of Public Works," will be received at the office of the City Controller, Municipal Hall, Pittsburgh, Pennsylvania, until 10.00 A. M. on Wednesday, the eighth day of March, 1905, and will be publicly opened and read.

All bids shall be made upon the blank forms of proposal which, with contract and specifications, can be obtained at the office of the Bureau of Filtration in Municipal Hall, Pittsburgh, Pennsylvania.

Each proposal shall be accompanied by a legally executed bond, to the amount of 5 per cent. of the estimated cost of the contract, and executed by a security or trust company which has complied with the City Ordinance in reference to furnishing bonds for City Contracts, which bond shall be held as security for the execution and faithful performance of the contract. The work is divided into 10 contracts and the total amount of the bonds required is $3,000,000.

The specifications and blue-prints of Contract Plans may be seen at the office of the Bureau of Filtration and a limited edition can be obtained by bona-fide intending bidders on making a deposit varying from $10.00 to $25.00 for the specifications, and from $50.00 to $200.00 for the Contract Plans, which amounts will be returned on return of the specifications and plans in good condition.

Some of the important portions of the work are as follows: 3 reservoirs, covering 27.5 acres; 46 covered filters of 1 acre each; 1 covered filtered water reservoir of 6.3 acres; concrete steel conduits, 48 to 124 inches in diameter; gate chambers and superstructures; cofferdams and revetment slope paving; pumping station and accessories; high duty pumping engines and accessories.

Some of the leading quantities are approximately as follows:

850,000 cubic yards of excavation,
275,000 cubic yards of filter material,
260,000 cubic yards of concrete,
1,800 tons of cast-iron pipe,
5,400 tons of steel pipe,
39,000 square yards of macadam roadways,
20,000 square yards of asphalt pavement,
800 square yards of stone pavement,
4 centrifugal pumps with engines and condensers,
8 water tube boilers with stokers and economizers,
3 Wash water pumps,
Electrical apparatus and miscellaneous pumping station equipment,
2 high duty engines with water tube boilers and appurtenances.

The right is reserved to increase or decrease the amount of any class or portion of the work, to reject any or all proposals, or to accept any proposal as shall be deemed to be to the interest of the City of Pittsburgh.

WILLIAM B. HAYS,
Mayor.
EDWARD M. BIGELOW,
Director Department of Public Works.
MORRIS KNOWLES,
Chief Engineer,
5-3t Bureau of Filtration.

Plans and specifications may be seen at the Chicago (Monadnock Bldg.) and New York offices of Engineering News, 220 Broadway, New York.

DEPARTMENT OF THE INTERIOR, United States Geological Survey, Reclamation Service, Washington, D. C., November 28, 1904.—Sealed proposals will be received at the office of the United States Reclamation Service, Phoenix, Arizona, until 9 o'clock A. M., February 8, 1905, for the construction of a masonry dam and two bridges on Salt River, about 70 miles east of Phoenix, Arizona. The dam will contain about 300,000 cubic yards of masonry. Specifications, form of proposals and plans may be inspected at the office of the Chief Engineer of the Reclamation Service, Washington, D. C., or at the office of the district engineer of the Reclamation Service, Roosevelt, Ariz. Each bid must be accompanied by a certified check for $10,000, payable to the order of the Secretary of the Interior as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond in the sum of $100,000 for the faithful performance of the work. The right is reserved to reject any or all bids, to accept one part and reject the other, and to waive technical defects, as the interests of the service may require. Bidders are invited to be present. Proposals must be marked: "Proposals for the construction of the Roosevelt Dam, Salt River, Arizona." E. A. HITCHCOCK, Secretary. The time of opening bids for work described in the foregoing advertisement is hereby extended until February 23, 1905, at 3 o'clock P. M., at Phoenix, Arizona. 6-2t

STREET PAVING.

Geneva, N. Y.

Sealed bids are asked for by the Board of Public Works of the City of Geneva, N. Y., until 7 o'clock P. M., Thursday, February 23, 1905, on the following items for street paving with brick, macadam, tar macadam, asphaltic macadam and asphalt:

Square yards of pavement	29,600
Excavation, cu. yds.	5,000
New curb stone, lin. ft.	8,900
Old curb stone, reset, lin. ft.	1,650
Storm water sewer tile	3,000
3" drain tile	10,540
Catch basins	32

The foundation for about 3,800 square yards of this paving is Medina Block which will be taken up and relaid.

Specifications, blank proposals, etc., may be had on application at office of Board.

W. S. WOOD, Secretary.

Dated, Geneva, N. Y., Feb. 3, 1905. 6-2

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., February 2, 1905.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 16th day of February, 1905, and then opened, for lookout gallery at the U. S. Post Office and Court House building at Philadelphia, Pennsylvania, in accordance with the drawing and specification, copies of which may be had at this office or at the office of the Custodian at Philadelphia, Pennsylvania, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 6-2t

SITUATIONS OPEN

POSITION as superintendent of erection, with company handling steel railroad bridges and viaducts, light highway bridges, mill buildings, substructures of piles, cylinders, masonry and concrete, etc.; requires executive ability to control and direct twenty or more construction crews; give age, detailed experience, references, salary expected, and when can report. Address "D. A. 6," Engineering News, New York. 6-1t

For other Proposal Advertisements see pages 35, 36, 38 of Advertisements and Construction News page 52.